

Division of Environment  
Curtis State Office Building  
1000 SW Jackson St., Suite 400  
Topeka, KS 66612-1367



Phone: 785-296-1535  
Fax: 785-559-4264  
www.kdheks.gov

Lee A. Norman, M.D., Secretary

Laura Kelly, Governor

November 15, 2019

Source ID No. 0670007

Mr. Keith Steele  
General Manager  
Birla Carbon USA, Inc.  
3500 South Road S.  
Ulysses, KS 67880-8103

Re: Class I Air Emission Source Operating Permit Renewal

Dear Mr. Steele:

Enclosed is the Class I Operating Permit Renewal and annual certification of compliance form for Birla Carbon USA, Inc. located in Grant County, Kansas. The annual certification must be submitted to the Kansas Department of Health and Environment (KDHE) on or before January 31 of each year that the permit is in effect. Please use copies of the enclosed form for the required certifications, retaining the original blank form for subsequent certifications. This form will not be mailed to you on a yearly basis. For the semi-annual reports, please refer to the "Testing, Monitoring, Recordkeeping and Reporting" section of the permit. Submittal of the annual certification does not take the place of the semi-annual report.

Please note in the reporting schedule below that the due date for your annual certifications has been changed from March 6 to January 31 and the due dates for your semi-annual reports have been changed from March 6 and September 3 to January 31 and July 31.

For the transition period between the previous permit (issued July 17, 2012) and the enclosed renewal permit (issued November 14, 2019), please comply with the following interim reporting requirements:

1. The annual certification due on January 31, 2020 should cite both the July 17, 2012 permit and the enclosed renewal permit.
2. The semi-annual report due on January 31, 2020 shall contain two separate reports:
  - one covering the July 17, 2012 permit requirements from August 4, 2019 through November 14, 2019, and
  - one covering the enclosed permit requirements from November 15, 2019 through December 31, 2019.

Bureau of Air  
Permitting Section  
Curtis State Office Building, Suite 310  
Topeka, KS 66612-1366

Phone 785-296-1104  
Fax: 785-559-4256  
James.Stewart@ks.gov

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Page 2  
Mr. Keith Steele  
November 15, 2019

**Please review the enclosed operating permit carefully since it obligates Birla Carbon USA, Inc. to certain requirements.**

As provided for in K.S.A. 65-3008b(e), an owner or operator may request a hearing within 15 days after affirmations, modification or reversal of a permit decision pursuant to subsection (b) of K.S.A. 65-3008a. In the Request for Hearing, the owner or operator shall specify the provision of this act or rule and regulation allegedly violated, the facts constituting the alleged violation and secretary's intended action. Such request must be submitted to: Director, Office of Administrative Hearings, 1020 S. Kansas Avenue, Topeka, Kansas 66612-1327. Failure to submit a timely request shall result in a waiver of the right to hearing.

The enclosed Class I Operating Permit does not relieve the permittee of the responsibility to obtain an air construction permit for future modifications that increase the facilities potential-to-emit of any regulated air pollutants as specified in K.A.R. 28-19-300, or any other modifications that may trigger other applicable air emission requirements.

Please include the source ID number listed above in all communications with KDHE in reference to this permitted facility. If you have any questions about the enclosed permit, or need any additional information, please contact me at (785) 296-1104.

Sincerely,

A handwritten signature in cursive script that reads "James D. Stewart".

James D. Stewart, PE  
Engineering Associate  
Air Permitting Section

JDS;jh  
Enclosure  
c: SWDO  
OP100093 v5.0 (O-13739)

Division of Environment  
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## AIR EMISSION SOURCE CLASS I OPERATING PERMIT

**Source ID No.:** 0670007

**Effective Date:** February 4, 2004

**Renewal Dates:** July 17, 2012  
November 15, 2019

**Expiration Date:** November 14, 2024

**Source Name:** Birla Carbon USA, Inc.

**SIC Code:** 2895, Carbon Black

**NAICS Code:** 325182, Carbon Black Manufacturing

**Source Location:** W 1/2 Section 7, Township 29S, Range 35W  
Grant County, Kansas

**Mailing Address:** 3500 South Road S.  
Ulysses, KS 67880-8103

**Contact Person:** Mr. Keith Steele  
General Manager  
Telephone: (620) 356-3151 ext. 15  
E-mail: keith.steele@adityabirla.com

### **I. Authority**

This permit, developed in accordance with the provisions of K.A.R. 28-19-500 *et seq.*, "Operating Permit," meets the requirements of K.A.R. 28-19-510 *et seq.*, Class I Operating Permits and Title V of the federal Clean Air Act.

## TABLE OF CONTENTS

<u>Section</u>	<u>Page</u>
I. Authority .....	1
II. Permit Intent.....	3
III. Facility Description.....	3
IV. Emission Source Information .....	3
V. Summary of Applicable Requirements .....	7
VI. Applicable Requirements.....	8
VII. Opacity Summary .....	23
VIII. Facility-Wide Applicable Requirements.....	24
IX. Opacity Limitations and Monitoring.....	26
X. Requirements Which Will Become Applicable During the Permit Term.....	27
XI. Permit Shield.....	27
XII. Testing, Monitoring, Recordkeeping, and Reporting.....	28
XIII. Reporting of Deviations from Permit Terms .....	29
XIV. General Provisions .....	29
A. K.A.R. 28-19-11, Enforcement Discretion due to Startup, Shutdown, malfunctions, or Scheduled Maintenance .....	29
B. K.A.R. 28-19-752a, Hazardous Air Pollutants; Limitations Applicable to Construction of New Major Sources or Reconstruction of Existing Major Sources.....	30
C. Permit Term and Renewal .....	30
D. Severability .....	30
E. Property Rights .....	31
F. Compliance .....	31
G. Compliance Certification.....	31
H. Emergency .....	32
I. Inspection and Entry .....	32
J. Permit Amendment, Modification, Reopening and Changes Not Requiring a Permit Action.....	33
K. Duty to Provide Information.....	33
L. Duty to Supplement .....	34
M. Other Permits and Approvals; Applicability.....	34
N. Submissions .....	34
Attachment A: List of Acronyms and Symbols	
Attachment B: Site Diagram	
Attachment C: Consent Decree (Civil Action No. 17-1661)	



## II. Permit Intent

The purpose of this Class I Air Operating Permit is to identify the emission sources, types of regulated air pollutants emitted from the facility, the emission limitations, standards, and requirements applicable to each emission source, and the monitoring, record keeping and reporting requirements applicable to each source as of the effective date of this permit. At the time of permit issuance, a Class I operating permit was required because the facility had the potential to emit (PTE) over 100 tons per year (tpy) of carbon monoxide (CO), nitrogen oxides (NO<sub>x</sub>), particulate matter less than 10 micrometers in size (PM<sub>10</sub>), sulfur dioxide (SO<sub>2</sub>), and volatile organic compounds (VOCs), over 10 tpy of the individual hazardous air pollutant (HAP), carbon disulfide (CS<sub>2</sub>), and over 25 tpy of combined HAPs.

## III. Facility Description

The Birla Carbon USA, Inc. (Birla Carbon) carbon black plant is located at 3500 South Road S, Ulysses, Kansas 67880. Carbon black is produced at the facility by means of the oil furnace process, which entails the high-temperature pyrolysis of a hydrocarbon feedstock oil (called carbon black oil), consisting mainly of unsaturated hydrocarbons, predominantly higher than C14. Insignificant activities at the facility include oil transfers, central vacuum system, powder packer filter, fin tube steam heaters, bag printing, wastewater pond evaporation units and space heaters.

The Hickok Facility currently has two production trains (units) for the manufacture of carbon black (EU-R02 and EU-R03).

## IV. Emission Source Information

Emission Source ID	Emission Source Description	Stack/Vent ID	Control Equipment ID	Control Equipment Description	Applicable Regulations
EU-B02	Boiler 02, 21 MMBtu/hr, natural gas	SV-28	N/A	N/A	K.A.R. 28-19-31(a) K.A.R. 28-19-31(b)(2) 40 CFR 60, Subpart Dc 9/18/1997 Construction Permit 40 CFR 63, Subparts A & DDDDD
EU-BF01	Vapor bag filter 01 (Dryers 02A and 02B, which dry product from Reactor 02)	SV-11	CE-BF01	Fabric filter/baghouse	K.A.R. 28-19-650(a)(3) 12/19/1995 (revised 12/22/2011) Construction Permit
EU-BF02	Vapor bag filter 02 (Dryer 03, which dries product from Reactor 03)	SV-12	CE-BF02	Fabric filter/baghouse	K.A.R. 28-19-650(a)(3) 12/19/1995 (revised 12/22/2011) Construction Permit
EU-BF07	Hopper car loading transfers	SV-18	CE-BF07	Fabric filter/baghouse	K.A.R. 28-19-650(a)(2)
EU-BF08	Hopper car loading transfers	SV-20	CE-BF08	Fabric filter/baghouse	K.A.R. 28-19-650(a)(2)

Emission Source ID	Emission Source Description	Stack/Vent ID	Control Equipment ID	Control Equipment Description	Applicable Regulations
EU-BF09	Hopper car loading transfers	SV-19	CE-BF09	Fabric filter/baghouse	K.A.R. 28-19-650(a)(2)
EU-BLEND	Rotary blending and mixing operations – bead coating oil additive & hopper car loading system	SV-42	CE-BF06	Fabric filter/baghouse	K.A.R. 28-19-20 K.A.R. 28-19-650(a)(3) 9/5/2000 Construction Permit
EU-R02	Reactor 02	SV-51 SV-52	CE-R02 EU-FLARE01 EU-TG01	Fabric filter baghouse, flare & boiler	K.A.R. 28-19-650(a)(3)  40 CFR 63, Subparts YY & SS  12/19/1995 (revised 12/22/2011), 3/11/2004, 12/22/2011, 2/2/2012, 5/2/2013 Construction Permits  November 15, 2019 Modification of Permit/Approval Conditions
		SV-16 (used only for start-up, shut-down, and coast)	CE-R02	Fabric filter baghouse	K.A.R. 28-19-650(a)(2)  40 CFR 63, Subpart YY  12/19/1995 (revised 12/22/2011), 3/11/2004, 12/22/2011, 2/2/2012, 5/2/2013 Construction Permits  November 15, 2019 Modification of Permit/Approval Conditions
		SV-38 (used only when oil is not combusted)	N/A	N/A	K.A.R. 28-19-650(a)(3)  12/19/1995 (revised 12/22/2011), 3/11/2004, 12/22/2011, 2/2/2012, 5/2/2013 Construction Permits  November 15, 2019 Modification of Permit/Approval Conditions

Emission Source ID	Emission Source Description	Stack/Vent ID	Control Equipment ID	Control Equipment Description	Applicable Regulations
EU-R03	Reactor 03	SV-51 SV-52	CE-R03 EU-FLARE01 EU-TG01	Fabric filter baghouse, flare & boiler	K.A.R. 28-19-650(a)(3)  40 CFR 63, Subparts YY & SS  12/19/1995 (revised 12/22/2011), 3/11/2004, 12/22/2011, 2/2/2012 Construction Permits  November 15, 2019 Modification of Permit/Approval Conditions
		SV-17 (used only for start-up, shut-down, and coast)	CE-R03	Fabric filter baghouse	K.A.R. 28-19-650(a)(2) 40 CFR 63, Subpart YY 12/19/1995 (revised 12/22/2011), 3/11/2004, 12/22/2011, 2/2/2012 Construction Permits  November 15, 2019 Modification of Permit/Approval Conditions
		SV-39 (used only when oil is not combusted)	N/A	N/A	K.A.R. 28-19-650(a)(2) 12/19/1995 (revised 12/22/2011), 3/11/2004, 12/22/2011, 2/2/2012 Construction Permits  November 15, 2019 Modification of Permit/Approval Conditions
EU-FLARE01	Tailgas Flare	SV-51	N/A	N/A	K.A.R. 28-19-650(a) (3) 40 CFR 63, Subparts YY & SS 3/11/2004 & 12/22/2011 Construction Permits
EU-TG01	Tailgas Boiler, 32 MMBtu/hr	SV-52	N/A	N/A	K.A.R. 28-19-31(a) K.A.R. 28-19-31(b)(2) 40 CFR 60, Subpart Dc 6/24/2004 & 12/22/2011 Construction Permits 40 CFR 63, Subparts A, YY

Emission Source ID	Emission Source Description	Stack/Vent ID	Control Equipment ID	Control Equipment Description	Applicable Regulations
EU-WV02	Warehouse conveying, screening, handling, and bagging operations	SV-18	CE-BF07	Fabric filter/ baghouse	K.A.R. 28-19-20 K.A.R. 28-19-650(a)(2)
EU-WV03	Warehouse conveying, screening, and handling operations	SV-20 SV-19	CE-BF08 CE-BF09	Fabric filter/ baghouse	K.A.R. 28-19-20 K.A.R. 28-19-650(a)(2)
FS-OPEN	Open sources, conveyance systems, leaks	N/A	N/A	N/A	K.A.R. 28-19-650(a)(3)
IA-CENTRALVAC	Collection of carbon black for housekeeping	SV-CENTRALVAC	CE-CENTRALVAC	N/A	K.A.R. 28-19-650(a)(3)
IA-GEN	Emergency generator	SV-37	N/A	N/A	K.A.R. 28-19-650(a)(3)
IA-LAB	Analytical quality laboratory	SV-40	N/A	N/A	K.A.R. 28-19-650(a)(2)
TK-06	Feedstock oil storage tank, 630,000 gal	SV-44	N/A	N/A	K.A.R. 28-19-650(a)(3)
TK-07	Feedstock oil storage tank, 630,000 gal	SV-45	N/A	N/A	K.A.R. 28-19-650(a)(3)
TK-08	Feedstock oil storage tank, 630,000 gal	SV-46	N/A	N/A	K.A.R. 28-19-650(a)(3)
TK-09	Bead coating oil storage tank, 20,000 gal	SV-43	N/A	N/A	K.A.R. 28-19-650(a)(3)
TK-10	Bulk carbon black storage tank, 23,300 gal	SV-18	CE-BF07	Fabric filter/ baghouse	K.A.R. 28-19-650(a)(2)
TK-11	Bulk carbon black storage tank, 23,300 gal	SV-18	CE-BF07	Fabric filter/ baghouse	K.A.R. 28-19-650(a)(2)
TK-12	Bulk carbon black storage tank, 23,300 gal	SV-18	CE-BF07	Fabric filter/ baghouse	K.A.R. 28-19-650(a)(2)
TK-13	Bulk carbon black storage tank, 23,300 gal	SV-18	CE-BF07	Fabric filter/ baghouse	K.A.R. 28-19-650(a)(2)
TK-14	Bulk carbon black storage tank, 13,300 gal	SV-18	CE-BF07	Fabric filter/ baghouse	K.A.R. 28-19-650(a)(2)
TK-15	Bulk carbon black storage tank, 5,300 gal	SV-18	CE-BF07	Fabric filter/ baghouse	K.A.R. 28-19-650(a)(2)
TK-16	Bulk carbon black storage tank, 5,300 gal	SV-18	CE-BF07	Fabric filter/ baghouse	K.A.R. 28-19-650(a)(2)
TK-17	Bulk carbon black storage tank, 5,300 gal	SV-20	CE-BF08	Fabric filter/ baghouse	K.A.R. 28-19-650(a)(2)
TK-18	Bulk carbon black storage tank, 5,300 gal	SV-20	CE-BF08	Fabric filter/ baghouse	K.A.R. 28-19-650(a)(2)

Emission Source ID	Emission Source Description	Stack/Vent ID	Control Equipment ID	Control Equipment Description	Applicable Regulations
TK-19	Bulk carbon black storage tank, 13,300 gal	SV-20	CE-BF08	Fabric filter/ baghouse	K.A.R. 28-19-650(a)(2)
TK-20	Beaded carbon black storage tank, 33,300 gal	SV-42	CE-BF06	Fabric filter/ baghouse	K.A.R. 28-19-650(a)(3) 9/5/2000 Construction Permit
TK-21	Carbon black receiving tank from Units 2 & 3 reactors, 433 gal	SV-13	CE-BF03	Fabric filter/ baghouse	K.A.R. 28-19-650(a)(2)
TK-22	Carbon black receiving tank from Unit 2 reactor, 833 gal	SV-13	CE-BF03	Fabric filter/ baghouse	K.A.R. 28-19-650(a)(2)
TK-23	Carbon black receiving tank from Unit 2 reactor, 833 gal	SV-13	CE-BF03	Fabric filter/ baghouse	K.A.R. 28-19-650(a)(2)
TK-24	Carbon black receiving tank from Unit 3 reactor, 833 gal	SV-14	CE-BF04	Fabric filter/ baghouse	K.A.R. 28-19-650(a)(2)

## V. Summary of Applicable Requirements

K.A.R. 28-19-20. Particulate matter emissions limitations .....	17
K.A.R. 28-19-30 through K.A.R. 28-19-32. Emission limitations (indirect heating equipment) .....	24
K.A.R. 28-19-55 through K.A.R. 28-19-58. Emergency episode plans .....	24
K.A.R. 28-19-210. Calculation of actual emissions .....	24
K.A.R. 28-19-517. Annual emission inventory and fees .....	25
K.A.R. 28-19-645. Open burning .....	25
K.A.R. 28-19-650. Emissions opacity limits .....	9
K.A.R. 28-19-720, which adopts by reference 40 CFR Part 60, Subpart A and Subpart Dc. Small Industrial, Commercial, Institutional steam generating units .....	5
K.A.R. 28-19-735, which adopts by reference 40 CFR Part 61, Subpart A, General Provisions, and 40 CFR 61, Subpart M, National Emission Standard for Asbestos .....	25
K.A.R. 28-19-750, which adopts by reference 40 CFR Part 63, Subpart YY, Generic Maximum Achievable Control Technology (MACT) for carbon black production .....	12
K.A.R. 28-19-750, which adopts by reference 40 CFR Part 63, Subpart SS. National Emission Standards for Closed Vent Systems, Control Devices, Recovery Devices and Routing to a Fuel Gas System or a Process .....	14
K.A.R. 28-19-750, which adopts by reference 40 CFR Part 63, Subpart DDDDD, Industrial, Commercial and Institutional Boilers and Process Heaters .....	22
40 CFR Part 68, Chemical Accident Prevention Provisions .....	25
40 CFR Part 82, Protection of Stratospheric Ozone .....	26

## VI. Applicable Requirements

### A. The following emission sources are subject to the requirements listed below:

Emission Source ID	Emission Source Description	Stack/Vent ID	Control Equipment ID
IA-H01	Bathhouse space heater 01	SV-35	N/A
IA-H02	Bathhouse space heater 02	SV-36	N/A
IA-H03	Warehouse space heater	SV-41	N/A

#### 1. Limitation or Standard

Opacity of visible emissions shall not equal or exceed 40 percent except as provided at K.A.R 28-19-11. [K.A.R. 28-19-31(b)(1)]

##### a. Monitoring

Periodic monitoring shall be as provided in Section IX. Opacity Limitations and Monitoring of this permit.

##### b. Recordkeeping and Reporting

Recordkeeping and reporting shall be as provided in Section IX. Opacity Limitations and Monitoring of this permit.

### B. The following emission sources are subject to the requirements listed below:

Emission Source ID	Emission Source Description	Stack/Vent ID	Control Equipment ID
EU-BF07	Hopper car loading transfers	SV-18	CE-BF07
EU-BF08	Hopper car loading transfers	SV-20	CE-BF08
EU-BF09	Hopper car loading transfers	SV-19	CE-BF09
EU-R02	Reactor 02	SV-16 (used only for start-up, shut-down, and coast)	CE-R02
		SV-17 (used only for start-up, shut-down, and coast)	CE-R03

Emission Source ID	Emission Source Description	Stack/Vent ID	Control Equipment ID
EU-R03	Reactor 03	SV-39 (used only when oil is not combusted)	N/A
EU-WV02	Warehouse conveying, screening, handling, and bagging operations	SV-18	CE-BF07
EU-WV03	Warehouse conveying, screening, and handling operations	SV-20 SV-19	CE-BF08 CE-BF09
IA-LAB	Analytical quality laboratory	SV-40	N/A
TK-10	Bulk carbon black storage tank, 23,300 gal	SV-18	CE-BF07
TK-11	Bulk carbon black storage tank, 23,300 gal	SV-18	CE-BF07
TK-12	Bulk carbon black storage tank, 23,300 gal	SV-18	CE-BF07
TK-13	Bulk carbon black storage tank, 23,300 gal	SV-18	CE-BF07
TK-14	Bulk carbon black storage tank, 13,300 gal	SV-18	CE-BF07
TK-15	Bulk carbon black storage tank, 5,300 gal	SV-18	CE-BF07
TK-16	Bulk carbon black storage tank, 5,300 gal	SV-18	CE-BF07
TK-17	Bulk carbon black storage tank, 5,300 gal	SV-20	CE-BF08
TK-18	Bulk carbon black storage tank, 5,300 gal	SV-20	CE-BF08
TK-19	Bulk carbon black storage tank, 13,300 gal	SV-20	CE-BF08
TK-21	Carbon black receiving tank from Units 2 & 3 reactors, 433 gal	SV-13	CE-BF03
TK-22	Carbon black receiving tank from Unit 2 reactor, 833 gal	SV-13	CE-BF03
TK-23	Carbon black receiving tank from Unit 2 reactor, 833 gal	SV-13	CE-BF03
TK-24	Carbon black receiving tank from Unit 3 reactor, 833 gal	SV-14	CE-BF04

1. Limitation or Standard

Opacity shall not exceed 40 percent except as provided at K.A.R. 28-19-11. [K.A.R. 28-19-650(a)(2)]

a. Monitoring

Periodic monitoring shall be as provided in Section IX. Opacity Limitations and Monitoring of this permit.

b. Recordkeeping and Reporting

Recordkeeping and reporting shall be as provided in Section IX. Opacity Limitations and Monitoring of this permit.

**C. The following emission source is subject to the requirements listed below:**

Emission Source ID	Emission Source Description	Stack/Vent ID	Control Equipment ID
EU-B02	Boiler 02, 21 MMBtu/hr, natural gas	SV-28	N/A

1. Limitation or Standard

The fuel for the boiler is limited to natural gas. [Construction permit dated September 18, 1997]

a. Monitoring, Recordkeeping, and Reporting

The owner or operator shall monitor and record the monthly amounts of fuel used in accordance with 40 CFR 60.48c(g).

In accordance with 40 CFR 60.48c(i), all records for the boiler shall be maintained at the facility for a period of two years following the date of record.

In accordance with 40 CFR 60.7(b), records consisting of the occurrence and duration of any startup, shutdown or malfunction in the operation of the boiler shall be maintained.

**D. The following emission sources are subject to the requirements listed below:**

Emission Source ID	Emission Source Description	Stack/Vent ID	Control Equipment ID
EU-TG01	Tailgas Boiler, 32 MMBtu/hr	SV-52	N/A



1. Limitation or Standard

Notifications required at 40 CFR 60.7(a) shall be made.

a. Monitoring, Record Keeping, and Reporting

Physical and operational changes to the boiler shall be reported if required by 40 CFR 60.7(a).

2. Limitation or Standard

The tailgas boiler shall be operated at all times when the reactor tailgas is vented to the boiler. [Permit dated December 22, 2011]

a. Monitoring, Record Keeping, and Reporting

Records shall be kept of those instances when the tailgas boiler is not operating and the reason including whether or not the tailgas is vented to the boiler during the boiler outage. [K.A.R. 28-19-512(a)(10)]

3. Limitation or Standard

The boiler shall comply with the applicable requirements of 40 CFR Part 60, Subparts Dc and A. A summary of the major requirements follows.

a. Monitoring, Record Keeping, and Reporting

The owner or operator shall monitor and record the monthly amounts of fuel used in accordance with 40 CFR 60.48c(g).

In accordance with 40 CFR 60.48c(i), all records for the boiler shall be maintained at the facility for a period of two years following the date of record.

In accordance with 40 CFR 60.7(b), records consisting of the occurrence and duration of any startup, shutdown or malfunction in the operation of the boiler shall be maintained.

**E. The following emission sources are subject to the requirements listed below:**

Emission Source ID	Emission Source Description	Stack/Vent ID	Control Equipment ID
EU-R02	Reactor 02	SV-51	CE-R02
		SV-52	EU-FLARE01
			EU-TG01
		SV-16 (used only for start-up, shut-down, and coast)	CE-R02
		SV-38 (used only when oil is not combusted)	N/A

Emission Source ID	Emission Source Description	Stack/Vent ID	Control Equipment ID
EU-R03	Reactor 03	SV-51	CE-R03
		SV-52	EU-FLARE01
			EU-TG01
		SV-17 (used only for start-up, shut-down, and coast)	CE-R03
		SV-39 (used only when oil is not combusted)	N/A
EU-FLARE01	Tailgas Flare	SV-51	N/A
EU-TG01	Tailgas Boiler, 32 MMBtu/hr	SV-52	N/A

1. Limitation or Standard

The owner or operator shall comply with any applicable requirements specified in the final rules implementing 40 CFR Part 63, Subpart YY, generic maximum achievable control technology (MACT) for carbon black production, including the relevant provisions of 40 CFR 63 Subpart A, General Provisions. A summary of the major requirements of Subpart YY follow.

a. Monitoring, Record Keeping, and Reporting

The owner or operator of an affected source subject to monitoring requirements of 40 CFR Part 63, Subpart YY, or to other requirements of Subpart YY or subparts referenced by Subpart YY, where periodic reporting is specified, shall submit a Periodic Report. [40 CFR 63.1110(e)]

*Due date.* The Periodic Report shall be submitted no later than 60 days after the end of each 6-month period. The first report shall cover the 6-month period after the Notification of Compliance Status report is due. The first report shall be submitted no later than the last day of the month that includes the date 8 months (6 months and 60 days) after the Notification of Compliance Status report is due. [40 CFR 63.1110(e)(2)]

*Overlap with Title V reports.* Information required by this Subpart YY, which is submitted with a Title V (Class I) periodic report, need not also be included in a subsequent Periodic Report required by Subpart YY or subpart referenced by Subpart YY. The Title V report shall be referenced in the Periodic Report required by Subpart YY. [40 CFR 63.1110(e)(3)]

Periodic reports shall include the reporting period dates, the total source operating time for the reporting period, and, as applicable, all information specified in 40 CFR 63.999 and in the referencing subpart, including reports of periods when monitored parameters are outside their established ranges [40 CFR 63.999(c)(1)].

The owner or operator shall report all periods when all flare pilot flames were absent or the flare flame was absent as recorded in 40 CFR 63.998(a)(1)(i)(C). [40 CFR 63.999(c)(3)]

The owner or operator shall meet the applicable reporting requirements of 40 CFR 63.999(c)(2) for the closed vent system routing emissions to the flare.

2. Limitation or Standard

The owner or operator shall implement a Startup, Shutdown, and Malfunction Plan (SSMP) for the affected sources subject to 40 CFR 63, Subpart YY to minimize the excess emissions during periods of startups, shutdowns, and malfunctions (SSM). The SSMP shall describe, in detail, procedures for operating and maintaining the affected sources during periods of startup, shutdown, and malfunction. The owner or operator shall comply with the applicable requirements of 40 CFR 63.1111. [40 CFR 63.1111]

a. Monitoring, Record Keeping, and Reporting

i. If actions taken by an owner or operator during a startup, shutdown, and malfunction of an affected source, or of a control device or monitoring system required for compliance (including actions taken to correct a malfunction) are consistent with the procedures specified in the affected source's plan, then the owner or operator shall state such information in a startup, shutdown, and malfunction report. During the reporting period, reports shall only be required for startups, shutdowns, and malfunctions during which excess emissions, as defined in 40 CFR 63.1108(a)(5), occur during the reporting period. A startup, shutdown, and malfunction report can be submitted as part of a Periodic Report required under 40 CFR 63.1110(a)(5), or on a more frequent basis if specified otherwise under this subpart or a subpart referenced by this subpart or as established otherwise by the permitting authority in the affected source's Title V permit. The startup, shutdown, and malfunction report shall be delivered or postmarked by the 30th day following the end of each calendar half (or other calendar reporting period, as appropriate), unless the information is submitted with the Periodic Report. The report shall include the information specified in VI.E.2.a.i.a) through d) below. [40 CFR 63.1111(b)(1)]

- a) The name, title, and signature of the owner or operator or other responsible official certifying its accuracy.
- b) The number of startup, shutdown, and malfunction events and the total duration of all periods of startup, shutdown, and malfunction for the reporting period if the total duration amounts to either of the durations in paragraphs 40 CFR 63.1111(b)(1)(ii)(A) or (B). Records of the number of continuous parameter monitoring system (CPMS) startup, shutdown, and malfunction events and the total duration of all periods of startup, shutdown, and malfunction for the reporting period are required under 40 CFR 63.998(c)(1)(ii)(C) and (D).

- i) Total duration of periods of malfunctioning of a CPMS equal to or greater than 5 percent of that CPMS operating time for the reporting period; or
  - ii) Total duration of periods of startup, shutdown, and malfunction for an affected source equal to or greater than 1 percent of that affected source's operating time for the reporting period.
- c) Records documenting each startup, shutdown and malfunction event as required under 40 CFR 63.998(c)(1)(ii)(F).
- d) Records documenting the total duration of operating time as required under 40 CFR 63.998(c)(1)(ii)(H).
- ii. Notwithstanding the allowance to reduce the frequency of reporting for startup, shutdown, and malfunction reports under 40 CFR 63.1111(b)(1), any time an action taken by an owner or operator during a startup, shutdown, or malfunction (including actions taken to correct a malfunction) during which excess emissions occur is not consistent with the procedures specified in the affected source's plan, the owner or operator shall report the actions taken for that event within 2 working days after commencing actions inconsistent with the plan, followed by a letter delivered or postmarked within 7 working days after the end of the event. The immediate report required under this paragraph shall contain the name, title, and signature of the owner or operator or other responsible official who is certifying its accuracy, explaining the circumstances of the event, the reasons for not following the startup, shutdown, and malfunction plan, and whether any excess emissions and/or parameter monitoring exceedances are believed to have occurred. Notwithstanding the requirements of the previous sentence, after the effective date of an approved permit program in the State in which an affected source is located, the owner or operator may make alternative reporting arrangements, in advance, with the permitting authority in that State. Procedures governing the arrangement of alternative reporting requirements under this paragraph are specified in 40 CFR 63.1110(h). [40 CFR 63.1111(b)(2)]

### 3. Limitation or Standard

As stated in Table 8 of 40 CFR 63.1103(f)(3), if the Hazardous Air Pollutant (HAP) concentration in the reactor main unit filter process vent is greater than 260 parts per million by volume, then the facility must either:

- a. Reduce emissions by using a flare meeting the requirements of 40 CFR 63, Subpart SS; or
- b. Reduce emissions of total HAP by 98 weight-percent or to a concentration of 20 parts per million by volume, whichever is less stringent, by venting emissions through a closed vent system to any combination of control devices meeting the requirements of 40 CFR 63.982(a)(2).

### Monitoring

- a. The flare shall meet the performance requirements in 40 CFR 63.11(b). [40 CFR 63.987(a)]
- b. Method 22 of appendix A of 40 CFR Part 60 shall be used to determine the compliance of the flare with the visible emissions provisions of 40 CFR 63.11(b)(4). [40 CFR 63.987(b)(3)(i)]
- c. The following monitoring equipment is required for the flare: a device (including but not limited to a thermocouple, ultra-violet beam sensor, or infrared sensor) capable of continuously detecting that at least one pilot flame or the flare flame is present. Flare flame monitoring and compliance records shall be kept as specified in 40 CFR 63.998(a)(1) and reported as specified in 40 CFR 63.999(a). [40 CFR 63.987(c)]
- d. The owner or operator shall meet the requirements in 40 CFR 63.983 for the closed vent system associated with the flare. [40 CFR 63.982(b)]
- e. The owner or operator shall meet the applicable requirements in 40 CFR 63.1103(f)(1) and (f)(3).

### Recordkeeping

- a. Each owner or operator shall keep up to date and readily accessible hourly records of whether the monitor is continuously operating and whether the flare flame or at least one pilot flame is continuously present [40 CFR 63.998(a)(1)(ii)].
- b. Each owner or operator shall keep records of the times and duration of all periods during which the flare flame or all the pilot flames are absent. This record shall be submitted in the periodic reports as specified in 40 CFR 63.999(c)(3). [40 CFR 63.998(a)(1)(iii)(A)]
- c. Start-up, shutdown and malfunction records shall be kept in accordance with 40 CFR 63.998(d)(3).
- d. Each owner or operator shall keep records of the times and durations of all periods during which the flare flame monitor is not operating. [40 CFR 63.998(a)(1)(iii)(B)]
- e. The owner or operator shall meet the applicable record keeping requirements of 40 CFR 63.998(d)(1) for the closed vent system routing emissions to the flare.

### Reporting

- a. Reports and notifications shall be submitted as required by 40 CFR 63.999.
- b. Upon request, the owner or operator shall make available to KDHE such records as may be necessary to determine the conditions of flare compliance assessment(s) performed pursuant to 40 CFR 63.987(b). [40 CFR 63.998(a)(1)]

4. Limitation or Standard

While the boiler is combusting tailgas, the owner or operator shall not allow the temperature at the outlet of the combustion chamber to exceed 2,200 °F (24 hour rolling average). [Permit dated December 22, 2011]

Monitoring, Record Keeping, and Reporting

The owner or operator shall monitor and record the temperature (for each hour and each 24 hour rolling average period) at the outlet of the combustion chamber of the boiler.

5. Limitation or Standard

While the boiler is combusting natural gas, the owner or operator shall not allow the temperature at the outlet of the combustion chamber to exceed 3,000 °F (24 hour rolling average). [Permit dated December 22, 2011]

Monitoring, Record Keeping, and Reporting

The owner or operator shall monitor and record the temperature (for each hour and each 24 hour rolling average period) at the outlet of the combustion chamber of the boiler.

6. Limitation or Standard

The owner or operator shall employ good combustion practices/combustion optimization when operating the boiler. [Permit dated December 22, 2011]

Monitoring, Record Keeping, and Reporting

The owner or operator shall develop, implement, and maintain on-site a written maintenance plan to assure proper operation of the boiler. [K.A.R. 28-19-501(d)(2)]

The owner or operator shall maintain a log showing the date of all routine or other maintenance, malfunction or repair of the boiler, the nature of the action taken on such date, and any corrective action or preventive measures taken. [K.A.R. 28-19-501(d)(3)]

7. Limitation or Standard

The boiler shall consist of a modern, properly designed burner system with the primary fuel being tailgas. [Permit dated December 22, 2011]

Monitoring, Record Keeping, and Reporting

The owner or operator shall develop, implement, and maintain on-site a written maintenance plan to assure proper operation of the boiler. [K.A.R. 28-19-501(d)(2)]

The owner or operator shall maintain a log showing the date of all routine or other maintenance, malfunction or repair of the boiler, the nature of the action taken on such date, and any corrective action or preventive measures taken. [K.A.R. 28-19-501(d)(3)]

8. Limitation or Standard

The owner or operator shall employ good combustion engineering in the operation of the flare. [Permit dated December 22, 2011]

Monitoring, Record Keeping, and Reporting

The owner or operator shall develop, implement, and maintain on-site a written maintenance plan to assure proper operation of the boiler. [K.A.R. 28-19-501(d)(2)]

The owner or operator shall maintain a log showing the date of all routine or other maintenance, malfunction or repair of the boiler, the nature of the action taken on such date, and any corrective action or preventive measures taken. [K.A.R. 28-19-501(d)(3)]

**F. The following emission sources are subject to the requirement listed below:**

<b>Emission Source ID</b>	<b>Emission Source Description</b>	<b>Stack/Vent ID</b>	<b>Control Equipment ID</b>
EU-BLEND	Rotary blending and mixing operations – bead coating oil additive & hopper car loading system	SV-42	CE-BF06
EU-WV02	Warehouse conveying, screening, handling, and bagging operations	SV-18	CE-BF07
EU-WV03	Warehouse conveying, screening, and handling operations	SV-20 SV-19	CE-BF08 CE-BF09

1. Limitation or Standard

Particulate matter (PM) emissions during any one hour are limited according to the following equations: [K.A.R. 28-19-20]

for: Process weight  $\leq$  30 tons/hr

$$E = 4.1(P^{0.67})$$

for: Process weight  $>$  30 tons/hr

$$E = 55(P^{0.11}) - 40$$

Where: E = allowable rate of emissions in lb/hr  
P = process weight rate in tons/hr

### Monitoring

The owner or operator shall re-evaluate the particulate emission rate limitation when either the process changes or an emission factor increases.

### Record Keeping and Reporting:

Records shall be maintained of any recalculations and evaluations. These records shall include the design rate capacity of the unit, emission factors used in calculations and potential/allowable emission rates.

**G. The following emission sources are subject to the requirements listed below:**

Emission Source ID	Emission Source Description	Stack/Vent ID	Control Equipment ID
EU-BF01	Vapor bag filter 01 (Dryers 02A and 02B, which dry product from Reactor 02)	SV-11	CE-BF01
EU-BF02	Vapor bag filter 02 (Dryer 03, which dries product from Reactor 03)	SV-12	CE-BF02
EU-R02	Reactor 02	SV-51 SV-52	CE-R02 EU-FLARE01 EU-TG01
		SV-16 (used only for start-up, shut-down, and coast)	CE-R02
		SV-38 (used only when oil is not combusted)	N/A
EU-R03	Reactor 03	SV-51 SV-52	CE-R03 EU-FLARE01 EU-TG01
		SV-17 (used only for start-up, shut-down, and coast)	CE-R03
		SV-39 (used only when oil is not combusted)	N/A



1. Limitation or Standard

The dust collection system (fabric filter) on EU-BF02 (Dryer 03) shall be in place and functioning as designed during production operations. [Permit dated December 19, 1995 (revised December 22, 2011)]

Monitoring, Record Keeping, and Reporting

Any non-compliance shall be recorded and reported. [K.A.R. 28-19-512(a)(9)]

Note: The dust collection system is inherent to the process.

2. Limitation or Standard

Emissions of particulate matter (PM), as determined by EPA Method 5, from Unit 2, including Reactor 02 and associated dryers, shall not exceed 7.50 pounds per hour when operating at full capacity. [Permit dated December 19, 1995 (revised December 22, 2011)]

Monitoring, Record Keeping, and Reporting

The owner or operator shall maintain on site a copy of the latest source emissions test showing compliance with this PM emission limit. [K.A.R. 28-19-512(a)(10)]

3. Limitation or Standard

CO emissions from Dryer 03 shall not exceed 0.23 pounds per hour. [Permit dated December 19, 1995 (revised December 22, 2011)]

Monitoring, Record Keeping, and Reporting

The owner or operator shall maintain on site a copy of the latest source emissions test showing compliance with this CO emission limit. [K.A.R. 28-19-512(a)(10)]

4. Limitation or Standard

This Limitation or Standard below has been subsumed by a more stringent limit on January 1, 2019 because the Consent Decree (Civil Action No. 17-1661 with effective date June 11, 2018) has sulfur feedstock limits in effect of 2% by weight for each 30-day average and 1.75% by weight for each 365-day average.

The oil feedstock to Reactors #2 and #3 shall not exceed 4.0% sulfur by weight (12 month rolling average). [Permit dated December 19, 1995 (revised December 22, 2011) and permit dated December 22, 2011]

Monitoring

The monitoring below has been subsumed by more stringent requirements in the Consent Decree (Civil Action No. 17-1661 with effective date June 11, 2018).

The owner or operator shall monitor the sulfur percent by weight in the feedstock oil. The sulfur percent by weight shall be as provided in writing by the manufacturer or testing (approved by KDHE). The owner or operator shall monitor and calculate the average percent sulfur (APS) by weight according to the equation below or equivalent. This APS shall be used to determine whether the limitation above is met.

$$APS = \frac{\sum_{i=1}^n S_i V_i}{\sum_{i=1}^n V_i}$$

Where;

APS = average percent sulfur during each 12 consecutive months  
S<sub>i</sub> = the sulfur percent by weight of each feedstock oil shipment  
V<sub>i</sub> = volume purchased in each feedstock oil shipment  
n = number of feedstock oil shipments during the 12 consecutive months

#### Record Keeping and Reporting

The record keeping and reporting below has been subsumed by more stringent requirements in the Consent Decree (Civil Action No. 17-1661 with effective date June 11, 2018).

The owner or operator shall maintain records of all oil purchased for feedstock. Such records shall include quantities and sulfur content. All oil purchase records shall be kept on site for 2 years from the date of record. [Permit dated December 19, 1995 (revised December 22, 2011)]

Records of the calculations for APS (above) shall be maintained on-site for at least two years. These records shall be updated monthly, no later than the last day of the month following the 12 month period to which the record relates. [Permit dated December 22, 2011)]

#### 5. Limitation or Standard

Production of carbon black in Reactor #2 shall not exceed 40,840 tons during any consecutive 12-month period. [Permit dated May 2, 2013]

#### Monitoring and Record Keeping

Production of carbon black from Reactor #2 shall be summarized for each calendar month and for each consecutive 12-month period to demonstrate compliance with the production limit above. Production records shall be kept on site for at least 2 years from the date of record. [Permit dated May 2, 2013]

#### Reporting

The owner or operator shall report to KDHE immediately in writing if the carbon black production limit above is exceeded. [Permit dated May 2, 2013]

6. Limitation or Standard

Production of carbon black in Reactors #2 and #3 combined shall not exceed 197.4 tons per 24 hour period. [Permit dated December 19, 1995 (revised December 22, 2011) and permit dated December 22, 2011]

Monitoring and Record Keeping

The owner or operator shall monitor and maintain records of production for each 24 hour period in Reactors #2 and #3 to demonstrate compliance with the limit above. These records shall be updated each work day. [Permit dated December 19, 1995, (revised December 22, 2011) and permit dated December 22, 2011]

Reporting

The owner or operator shall report to KDHE immediately in writing if carbon black production limits are exceeded. [Permit dated December 19, 1995 (revised December 22, 2011)]

7. Limitation or Standard

Dryer 03 shall be natural gas fueled. [Permit dated December 19, 1995 (revised December 22, 2011)]

Monitoring, Record Keeping, and Reporting

Any non-compliance shall be recorded and reported. [K.A.R. 28-19-512(a)(9)]

8. Limitation or Standard

The owner or operator shall use either feedstock oil or natural gas for carbon black reactor blast fuel. [Construction Permit issued February 2, 2012]

Monitoring, Record Keeping, and Reporting

Any non-compliance shall be recorded and reported. [K.A.R. 28-19-512(a)(9)]

**H. The following emission sources are subject to the requirement listed below:**

Emission Source ID	Emission Source Description	Stack/Vent ID	Control Equipment ID
EU-BLEND	Rotary blending and mixing operations – bead coating oil additive & hopper car loading system	SV-42	CE-BF06
TK-20	Beaded carbon black storage tank, 33,300 gal	SV-42	CE-BF06

1. Limitation or Standard

The bag collector (CE-BF06) shall be continuously operated while operating the rotary mixer-blender.[Construction permit dated September 5, 2000]

Monitoring, Record Keeping, and Reporting

The owner or operator shall maintain a log documenting those times when the bag collector is not operating while the rotary mixer-blender is operating. [K.A.R. 28-19-512(10)]

**I. The following emission source is subject to the requirement listed below:**

Emission Source ID	Emission Source Description	Stack/Vent ID	Control Equipment ID
EU-B02	Boiler 02, 21 MMBtu/hr, natural gas	SV-28	N/A

1. Limitation or Standard

The owner or operator shall comply with the applicable requirements of 40 CFR Part 63 Subpart DDDDD, National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters. The following is a summary of the requirements.

In accordance with 40 CFR 63.7565, the owner or operator shall comply with the applicable sections of 40 CFR Part 63 Subpart A, General Provisions, as identified in Table 10 of Subpart DDDDD.

The owner or operator must meet the applicable requirements as specified in 40 CFR 63.7500.

Monitoring

The owner or operator shall meet the applicable requirements in 40 CFR 63.7505, 63.7510, 63.7515, 63.7520, 63.7521, 63.7525, 63.7530, 63.7535, 63.7540, and 63.7541.

Record Keeping and Reporting

- a. The owner or operator must submit the applicable notifications as specified in 40 CFR 63.7545.
- b. The owner or operator must submit the applicable reports as specified in 40 CFR 63.7550.
- c. The owner or operator must keep the applicable records as specified in 40 CFR 63.7555 and 40 CFR 63.7560.

**J. The following emission sources are subject to the requirements listed below:**

Facility-wide

1. Limitation or Standard

Birla Carbon was issued a Consent Decree (Civil Action No. 17-1661) with an effective date of June 11, 2018. The requirements and limitations of this Consent Decree shall be met until the Consent Decree is terminated. The Consent Decree requires certain requirements and limitations to be in a Title V permit before the Consent Decree is terminated.

Monitoring

The owner or operator shall meet the monitoring requirements of the Consent Decree until it is terminated.

Record Keeping and Reporting

The owner or operator shall meet the Record Keeping and Reporting requirements of the Consent Decree until it is terminated.

Since monitoring, recordkeeping, and reporting requirements are required in **Section VI. Applicable Requirements**, the facility is required to submit a semi-annual report every six months. Refer to **Section XIV. G., Compliance Certification** for the submittal dates of required reports.

**VII. Opacity Summary**

All emission units other than those listed below are subject to 20% opacity:

Stack / Vent ID	Emission Source ID No.	Emission Source Opacity Requirement
SV-18	EU-BF07, EU-WV-02, TK-10, TK-11, TK-12, TK-13, TK-14, TK-15, TK-16	40%
SV-20	EU-BF08, EU-WV-03, TK-17, TK-18, TK-19	40%
SV-19	EU-BF09, EU-WV03	40%
SV-16	EU-R02	40%
SV-17	EU-R03	40%

Stack / Vent ID	Emission Source ID No.	Emission Source Opacity Requirement
SV-39	EU-R03	40%
SV-35	IA-H01	<40%
SV-36	IA-H02	<40%
SV-41	IA-H03	<40%
SV-40	IA-LAB	40%
SV-06	EU-OH1	<40%
SV-07	EU-OH2	<40%
SV-13	TK-21, TK-22, TK-23	40%
SV-14	TK-24	40%

### **VIII. Facility-Wide Applicable Requirements**

The permittee shall comply with the following when required by the relevant regulation:

#### **A. K.A.R. 28-19-30 through K.A.R. 28-19-32, Indirect Heating Equipment Emissions**

Except as provided in K.A.R. 28-19-32, aggregated emissions of particulate matter from indirect heating equipment shall not exceed those specified in table H-1 of K.A.R. 28-19-31(a), or for equipment having intermediate heat input between 10 MMBtu/hr and 10,000 MMBtu/hr, the allowable emission rate may be determined by the equation provided at K.A.R. 28-19-31(a).

Records shall be maintained of any recalculations and evaluations. These records shall include the design rate capacity of the unit, emission factors used in calculations and potential/allowable emission rates.

#### **B. K.A.R. 28-19-55 through K.A.R. 28-19-58, Air Pollution Emergency Episode Plans**

The permittee shall comply with the requirements of K.A.R. 28-19-55 through 28-19-58, Air Pollution Emergency Episode Plans, and shall maintain on site an emergency episode plan if the KDHE requires an emergency episode plan be developed pursuant to K.A.R. 28-19-58.

#### **C. K.A.R. 28-19-210, Calculation of Actual Emissions**

The following applies to emission control equipment not otherwise addressed in this permit:

If the owner or operator uses air emission control equipment, not otherwise addressed in this permit, to calculate actual emissions, the air emission control equipment shall be maintained in accordance with the manufacturer's recommendation. The owner or operator shall keep a written log recording the date and type of action taken when performing preventive or other maintenance on the air emission control equipment.

**D. K.A.R. 28-19-517, Annual Emissions Inventory and Fees**

1. Annual Emissions Inventory:

The owner or operator shall submit all operating or relevant information to estimate emissions for the preceding year to the KDHE. This information shall be submitted on or before the date specified at K.A.R. 28-19-517 or amendments thereto.

2. Annual Emissions Fee:

The owner or operator of a permitted emissions unit or stationary source is required to pay fees to the permitting authority consistent with the fee schedule set out in the regulations pursuant to K.A.R. 28-19-517(b).

3. Submittal:

Each annual emissions inventory and each annual emissions fee shall be submitted on forms provided or approved by the KDHE as specified in K.A.R. 28-19-517(c). At the time of permit issuance, the due date for submittal of this information is April 1.

4. Late Fee and refund:

Each owner or operator who fails to submit the annual emission inventory and pay the annual emissions fee by the due date specified shall pay a late fee as specified in K.A.R. 28-19-517(d) and any overpayment of \$100.00 or more made by the owner or operator of a stationary source may be refunded.

**E. K.A.R. 28-19-645, Open Burning**

The permittee is prohibited from conducting open burning, except as allowed by K.A.R. 28-19-647 and K.A.R. 28-19-648.

**F. K.A.R. 28-19-735, Which Adopts by Reference 40 CFR Part 61 Subpart A, General Provisions, and Subpart M, NESHAP for Asbestos**

The permittee shall comply with the National Emission Standard for Hazardous Air Pollutants (NESHAP) 40 CFR Part 61 Subpart A, General Provisions, and Subpart M, National Emission Standard for Asbestos, adopted by K.A.R. 28-19-735 and K.A.R. 28-50-1 et seq., when conducting any renovation or demolition activities at the facility.

**G. 40 CFR Part 68, Chemical Accident Prevention Provisions**

Chemical Accident Prevention Provisions, 40 CFR Part 68, is applicable to an owner or operator of a stationary source that has more than a threshold quantity of a regulated substance in a process, as determined in 40 CFR 68.115.

If the stationary source is subject to 40 CFR Part 68, but is not required to comply with those requirements as of the effective date of this operating permit, the stationary source shall be in compliance with the requirements of 40 CFR Part 68 no later than the latest of the following dates:

1. Three years after the date on which a regulated substance is first listed in 40 CFR 68.130; or
2. The date on which a regulated substance is first present above a threshold quantity in a process.

#### **H. 40 CFR Part 82, Protection of Stratospheric Ozone**

The permittee shall comply with 40 CFR Part 82, Protection of Stratospheric Ozone. Affected controlled substances include, but are not limited to, chlorofluorocarbons, hydrochlorofluorocarbon refrigerants, halons, carbon tetrachloride, and methyl chloroform (specific affected controlled substances are listed in 40 CFR Part 82, Subpart A, appendices A {Class I} and B {Class II}).

The following subparts and sections of 40 CFR Part 82 are conditions of this permit:

Subpart A - Production and Consumption Controls

Subpart B - Servicing of Motor Vehicle Air Conditioners

Subpart E - Labeling of Products Using Ozone-Depleting Substances: Section; 82.106 Warning statement requirements, 82.108 Placement of warning statement, 82.110 Form of label bearing warning statement, and 82.112 Removal of label bearing warning statement

Subpart F - Recycling and Emissions Reduction: Sections; 82.156 Required practices, 82.158 Standards for recycling and recovery equipment, 82.161 Technician certification, and 82.166 Reporting and recordkeeping requirements

Subpart G - Significant New Alternatives Policy Program

#### **IX. Opacity Limitations and Monitoring**

Except as otherwise provided in K.A.R. 28-19-9, K.A.R. 28-19-11, and K.A.R. 28-19-650(c) or as otherwise identified in the Applicable Requirements portion of this permit, K.A.R. 28-19-650(a)(3) limits visible air emissions from each emission unit to 20%. K.A.R. 28-19-31(b)(2) limits visible air emissions from any indirect heating equipment to less than 20%.

Except as otherwise provided in the applicable requirements portion of this permit, emissions from the following or similar activities do not require routine periodic monitoring: emissions vented inside an enclosed building or structure, from cooling towers, and from evaporative VOC sources; and emissions from turbines, reciprocating internal combustion engines, burners in indirect heating applications, and space heaters when burning natural gas, propane/LPG, or refinery gas.

Routine periodic monitoring requirements: Except as otherwise provided in the applicable requirements portion of this permit or as provided above, the owner or operator shall perform a qualitative assessment at least once per calendar month, with at least one week between assessments. The monthly qualitative assessment shall include each activity at the facility, which is operating at the time scheduled. For each activity from which the opacity of visible emissions appears to exceed the limit, the permittee shall take appropriate action to correct process operating parameters, after which the permittee shall perform an



additional qualitative assessment for that unit. If, at the end of ten operating days from the date of the possible exceedance, opacity of visible emissions appears to continue to exceed the limit, the owner or operator shall notify the agency, within seven days of the end of the ten operating day period, and shall schedule a test utilizing EPA Method 9, of visible emissions from the unit appearing to exceed the limit, within 30 days of the end of the ten operating day period.

The person responsible for making qualitative opacity assessments shall be knowledgeable about the effects on visibility of emissions caused by background contrast, ambient lighting, observer position relative to lighting and wind, and the presence of uncombined water in the plume.<sup>1</sup> The permittee shall keep records of each qualitative assessment, which shall include the time and date of the assessment, a description of the emission point from which any unusual emissions emanated, the steps taken to correct any abnormal emissions, and the name of the person conducting the assessment.

The KDHE Bureau of Air does not consider a qualitative assessment in which emissions appear to exceed the applicable opacity limits to be a violation or deviation subject to reporting in accordance with **Section XIII. Reporting of Deviations from Permit Terms**. A Method 9 evaluation that shows opacity exceeding the emission limit would be subject to reporting in accordance with **Section XIII. Reporting of Deviations from Permit Terms**.

#### **X. Requirements Which Will Become Applicable During the Permit Term**

The owner or operator, in accordance with the provisions of K.A.R. 28-19-511(b)(16)(C)(ii) and K.A.R. 28-19-512(a)(23) shall comply in a timely manner with those applicable requirements that become effective during the permit term.

The owner or operator shall meet all the requirements of the Consent Decree (Civil Action No. 17-1661 with effective date June 11, 2018) until it is terminated (see Attachment C). Within 12 months of commencement of operation of each control technology required by the Consent Decree, the owner or operator shall apply to permanently include the Consent Decree requirements and limitations below in a non-Title V permit. Those requirements and limitations are summarized as: 7-day rolling average emission limit for NO<sub>x</sub>, 365-day rolling average emission limit for NO<sub>x</sub>, 365-day rolling sum emission limit for NO<sub>x</sub>, limit on 30-day rolling average sulfur content weight percent of feedstock, limit on 365-day rolling average sulfur content weight percent of feedstock, PM control technology, PM emission limits, PM best management practices, PM early warning system requirements, NO<sub>x</sub> cap, feedstock sulfur content monitoring requirements, NO<sub>x</sub> monitoring requirements, prohibition of use of existing tailgas boiler, and prohibition on use of flares.

#### **XI. Permit Shield**

Compliance with the conditions of this permit shall be deemed in compliance with the applicable requirements of the Kansas air quality program as of the date of permit issuance. This shield applies only to:

A. Applicable requirements included, and specifically identified in the permit; and

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<sup>1</sup> For basic information about opacity observations, refer to 40 CFR Part 60 Appendix A, Method 9.

- B. Applicable requirements that the KDHE has specifically identified in writing as not being applicable to the emissions unit or stationary sources and the determination or a concise summary thereof is included in the permit.

Nothing in this permit shall alter or affect:

- A. The liability of a permittee for any violation of an applicable requirement occurring prior to or at the time of issuance of this permit;
- B. U.S. EPA's ability to obtain information under Section 114 of the Clean Air Act
- C. The provisions of Section 303, Emergency orders, of the Clean Air Act, including the authority of the administrator of the U.S. EPA under that section or the air pollution emergency provisions of the Kansas air quality program regulations, K.A.R. 28-19-55 through 28-19-58; or
- D. The applicable requirements of the acid rain program, consistent with section 408(a) of the Act. [K.A.R. 28-19-512(b)]

## **XII. Testing, Monitoring, Recordkeeping and Reporting**

Testing, monitoring, recordkeeping and reporting requirements sufficient to assure compliance with the terms and conditions of the permit are required. [K.A.R. 28-19-512(a)(21)]

In addition to any testing, monitoring, recordkeeping, or reporting requirement contained in **Section VI. Applicable Requirements**, monitoring and reporting may be required under the provisions of K.A.R. 28-19-12, Measurement of Emissions, or as required by any other provision of the federal Clean Air Act.

Records to support all monitoring and copies of all reports required by the permit must be maintained for a period of at least five years from the date of the activity. [K.A.R. 28-19-512(a)(10)(G)]

Summary reports of any routine, continuous, or periodic monitoring must continue to be submitted at six-month intervals for the duration of the permit. The reporting periods and due dates for these reports are identified in **Section XIV. G. Compliance Certification**. All instances of deviations from permit requirements, **including perceived opacity exceedances**, shall be clearly identified in the report. All reports shall be certified by a responsible official. [K.A.R. 28-19-512(a)(11)(A)]

Submission of quarterly or semi-annual reports required by any applicable requirement which duplicate the reporting required in the previous paragraph will satisfy the reporting requirements of the previous paragraph if noted on the submitted report. [K.A.R. 28-19-512(a)(9)]

The reporting period and due date for the annual certification is identified in **Section XIV. G. Compliance Certification**. All instances of deviations from permit requirements, **including perceived opacity exceedances**, shall be clearly identified in the report. The report shall be certified by a responsible official. [K.A.R. 28-19-512(a)(26)]

Records of required monitoring shall include:

- A. The date, place, and time of sampling or measurement;

- B. The date(s) analyses were performed;
- C. The company or entity which performed the analyses;
- D. The analytical techniques or methods used;
- E. The results of the analyses;
- F. The operating conditions that existed at the time of sampling or measurement; and
- G. The retention of records of all required monitoring data and support information for a period of at least five years from the date of the monitoring sample, measurement, report, or application. Support information shall include all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit. [K.A.R. 28-19-512(a)(10)]

### **XIII. Reporting of Deviations from Permit Terms**

Unless a different time period is specified in this permit, deviations from the requirements of this permit shall be reported to the KDHE as follows:

- A. Deviations which result in emissions exceeding those allowed in this permit shall be reported the next business day following the discovery of the release, with follow-up written notice within five business days following discovery of the release. The report shall include the probable cause of such deviations and any corrective actions or preventive measures taken.
- B. Deviations which do not result in emissions exceeding those allowed in this permit shall be reported in writing within ten business days following discovery of the deviation.

Oral notification shall be made to the air program compliance staff in the KDHE central office in Topeka. Written notifications shall also be made to the KDHE central office ([KDHE.BOAcpliance@ks.gov](mailto:KDHE.BOAcpliance@ks.gov)) with a copy to the Southwest District Office. [K.A.R. 28-19-512(a)(11)]

### **XIV. General Provisions**

#### **A. K.A.R. 28-19-11, Enforcement Discretion Due to Startup, Shutdown, Malfunctions, or Scheduled Maintenance**

An emission source having emissions that are in excess of the applicable emission limitations and standards specified at K.A.R. 28-19-20 through 26, K.A.R. 28-19-30 through 32, and K.A.R. 28-19-650, and result from startup, shutdown, malfunctions, or scheduled maintenance of control or processing equipment and appurtenances may be exempt from enforcement action at the Secretary's discretion if both of the following conditions are met:

1. The person responsible for the operation of the emission source notifies the KDHE of the occurrence and nature of the excess emissions resulting from startup, shutdown,

malfunctions, or scheduled maintenance, in writing, within ten (10) days of discovery of the excess emissions.

2. Reasonable action is taken regarding the occurrence specified in paragraph (a)(1) to initiate and complete any necessary repairs and place the equipment back in operation as quickly as possible.

Emissions that are in excess of the applicable emission source emission limitation and standard specified at K.A.R. 28-19-20 through 26, K.A.R. 28-19-30 through 32, and K.A.R. 28-19-650, and result from startup, shutdown, or malfunctions shall be evaluated by the Secretary for potential enforcement action based on the frequency and severity of the excess emissions.

Emissions that are in excess of the applicable emission source emission limitation and standard and result from scheduled maintenance of control or processing equipment and appurtenances shall be evaluated by the Secretary for potential enforcement action based on the following: (1) the severity of the excess emissions; (2) any prior approval for scheduled maintenance by the Secretary; and (3) demonstration that the scheduled maintenance cannot be accomplished by maximum reasonable effort, including off-shift labor where required, during periods of shutdown of any related control or processing equipment.

Any exemption granted under this regulation may be rescinded if the Secretary obtains additional information and deems enforcement action necessary based upon this information.

Lack of enforcement for excess emissions under this regulation shall not preclude the taking of enforcement action by USEPA or through private citizen lawsuits.

**B. K.A.R. 28-19-752a, Hazardous Air Pollutants; Limitations Applicable to Construction of New Major Sources or Reconstruction of Existing Major Sources**

This regulation shall continue in effect for an emissions unit or stationary source until a standard has been promulgated which is applicable to such source pursuant to section 112(d) of the federal Clean Air Act.

This regulation shall apply whenever construction of a new major source or reconstruction of an existing major source of hazardous air pollutants is proposed.

**C. Permit Term and Renewal**

This permit has a term of five years unless otherwise stated in this permit. A complete application, as defined in K.A.R. 28-19-518, and any applicable fee must be submitted to the KDHE not less than six months and not more than 18 months prior to the expiration date. This operating permit shall not expire on the expiration date if a complete and timely application has been filed with the KDHE. [K.A.R. 28-19-512(a)(8) and K.A.R. 28-19-514]

**D. Severability**

The provisions of this permit are severable, and if any portion of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstance, and the remainder of this permit, shall not be affected thereby. [K.A.R. 28-19-512(a)(13)]

**E. Property Rights**

This permit does not convey any property rights of any sort or any exclusive privilege.  
[K.A.R. 28-19-512(a)(14)(D)]

**F. Compliance**

The owner or operator shall comply with all conditions of the permit and shall continue to comply with applicable requirements with which the owner or operator is in compliance, in accordance with K.A.R. 28-19-511(b)(16)(C)(i). Any permit noncompliance shall constitute a violation of the Kansas Air Quality Act and shall be grounds for enforcement action, for permit revocation or amendment, or for denial of a permit renewal application. All permit terms and conditions are federally enforceable.

It shall not be a defense for a permittee in an enforcement action to contend that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit.

This permit may contain provisions which require that data from specific test methods, monitoring, or recordkeeping be used as a demonstration of compliance with permit limits. On February 24, 1997, the U.S. EPA promulgated revisions to the following federal regulations: 40 CFR Sec. 51.212; 40 CFR Sec.52.12; 40 CFR Sec. 60.11; 40 CFR Sec. 61.12; and incorporation of 40 CFR Sec. 52.33, that allow the use of any credible evidence to establish compliance with applicable requirements. At the issuance of this permit, the State of Kansas has incorporated these provisions in its air quality regulations K.A.R. 28-19-212(c) and (d), K.A.R. 28-19-350, K.A.R. 28-19-720 and K.A.R. 28-19-735.  
[K.A.R. 28-19-512(a)(14)]

**G. Compliance Certification**

The permittee shall annually submit to the Air Compliance and Enforcement Section of the KDHE, and a copy to the Air Permitting and Compliance Branch of the U.S. EPA, Region 7, a certification of compliance (Form CR-02, "Annual Certification"). The due date of the certification is January 31 of each year for the period from January 1 to December 31 of the previous year.

The semiannual summary reports required by **Section XII. Testing, Monitoring, Recordkeeping and Reporting** shall be submitted by the dates specified below for each subsequent reporting period:

- The report covering the period from July 1 to December 31 shall be submitted by January 31 of each year, and
- The report covering the period from January 1 to June 30 shall be submitted by July 31 of each year.

The certification shall include the permit term or condition that is the basis of the certification; the current compliance status; whether compliance was continuous or intermittent; the method or methods used for determining the compliance, currently and over the reporting period; and such other facts as the KDHE may require to determine the compliance status of the source. The

certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the certification are true, accurate and complete.

[K.A.R. 28-19-512(a)(26) and K.A.R. 28-19-512(a)(27)]

## **H. Emergency**

An “emergency” means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under this permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.

An emergency shall constitute an affirmative defense to an action brought for noncompliance with such technology-based emission limitation if the conditions below are met. The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs or relevant evidence that:

1. an emergency occurred and that the permittee can identify the cause or causes of the emergency;
2. the permitted facility was at the time being properly operated;
3. during the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in the permit; and
4. the permittee submitted notice of the emergency, containing a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken, to the KDHE within two working days of the time when emission limitations were exceeded due to the emergency.

In any enforcement proceeding, the permittee seeking to establish the occurrence of an emergency shall have the burden of proof.

These emergency provisions are in addition to any emergency or upset provisions contained in any applicable requirement. Whenever these emergency provisions conflict with the provisions of K.A.R. 28-19-11, these emergency provisions shall control. [K.A.R. 28-19-512(d)]

## **I. Inspection and Entry**

Upon presentation of credentials and other documents as may be required by law, representatives of the KDHE, including authorized contractors of the KDHE, shall be allowed by the permittee to:

1. enter upon the premises where a regulated facility or activity is located or conducted or where records are kept under conditions of this document;

2. have access to and copies of, at reasonable times, any records that must be kept under conditions of this document;
3. inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this document; and
3. as authorized by the Kansas Air Quality Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [K.A.R. 28-19-512(a)(22)]

**J. Permit Amendment, Modification, Reopening, and Changes Not Requiring a Permit Action**

The permit may be modified, revoked, reopened, reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation, reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.

The permitting authority will reopen and revise or revoke this permit as necessary to remedy deficiencies in the following circumstances:

1. additional requirements under the Clean Air Act become applicable to the source three or more years prior to the expiration date of this permit. Such a reopening shall be completed no later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the expiration date of this permit.
2. it is determined by the KDHE that this permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit.
3. it is determined by the KDHE that it is necessary to revise or revoke this permit in order to assure compliance with applicable requirements.

This document is subject to periodic review and amending as deemed necessary to fulfill the intent and purpose of the Kansas Air Quality Statutes and the Kansas Air Quality Regulations.

No permit revision shall be required under any approved economic incentives, pollution prevention incentives, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for in the permit. [K.A.R. 28-19-513]

**K. Duty to Provide Information**

Unless a different time frame is specified in this permit, the permittee shall furnish to the KDHE any information that the KDHE may request in writing within 60 days of the request, unless the KDHE specifies another time period. Submittal of confidential business information must be in accordance with the KDHE procedures. [K.A.R. 28-19-518(c) and K.A.R. 28-19-512(a)(14)(E)]

**L. Duty to Supplement**

The permittee, upon becoming aware that any relevant facts were omitted from or incorrect information was included in any submittal, shall promptly submit such supplementary facts or corrected information. [K.A.R. 28-19-518(e)]

**M. Other Permits and Approvals; Applicability**

A construction permit or approval must be obtained from the KDHE prior to commencing any construction or modification of equipment or processes which results in potential emission increases equal to or greater than the thresholds specified at K.A.R. 28-19-300.

This document does not relieve the permittee of the obligation to obtain any approvals, permits, licenses, or documents of sanction which may be required by other federal, state, or local government agencies. [K.A.R. 28-19-512(a)(29)]

**N. Submissions**

Written notification of malfunctions, exceedances, and deviations may be submitted to the following email address: [KDHE.BOAcpliance@ks.gov](mailto:KDHE.BOAcpliance@ks.gov)

EPA regulations codified in 40 CFR Part 60, 62, and 63 require affected sources to electronically submit performance test reports, notification reports, and periodic reports to EPA, as specified in the affected regulations. As a result, the EPA has developed the Compliance and Emissions Data Reporting Interface (CEDRI), which is accessed through the EPA's **Central Data Exchange (CDX)** (<https://cdx.epa.gov/>). The CDX Web is the application used by EPA programs and various stakeholders to manage environmental data transmitted to EPA in order to meet EPA's electronic reporting requirements. However, if the reporting form is not available in CEDRI at the time that the report is due, the source must submit the report to the Administrator [address listed in 40 CFR 63.13]:

Kansas Compliance Officer  
Air Branch  
Enforcement and Compliance Assurance Division  
U.S. EPA Region 7  
11201 Renner Blvd.  
Lenexa, Kansas 66219

The source must begin submitting required reports via CEDRI no later than 90 days after the form becomes available in CEDRI. Copies of reports submitted through CEDRI, all other reports, notifications, information, and other correspondence (including submission of the Annual Certification Form CR-02) shall be submitted to:

Air Compliance and Enforcement Section  
Bureau of Air  
Kansas Department of Health and Environment  
1000 SW Jackson, Suite 310  
Topeka, Kansas 66612-1366  
(785) 296-6422



A copy of each Annual Certification Form CR-02 shall be submitted to:

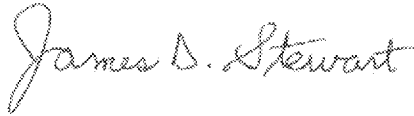
Kansas Compliance Office  
Air Branch  
Enforcement and Compliance Assurance Division  
U.S. EPA, Region 7  
11201 Renner Blvd.  
Lenexa, Kansas 66219

The Annual Certification shall be certified by a responsible official. This certification shall state that, based on the information and belief formed after reasonable inquiry, the statements and information in the certification are true, accurate, and complete. This certification shall be submitted with original signatures. [K.A.R. 28-19-512(a)(21) and K.A.R. 28-19-512(a)(27)]

When specified in the permit, contact the district office at:

Southwest District Office  
302 West McArtor Road  
Dodge City, Kansas 67801  
(620) 682-7940- Main Office  
(620) 356-1075- Ulysses Satellite Office

**Permit Writer**



James D. Stewart, PE  
Engineering Associate  
Air Permitting Section

JDS:jh  
c: SWDO  
OP100093 v5.0 (O-13739)

Attachment A

Acronyms and Symbols

## LIST OF ACRONYMS AND SYMBOLS

<b><u>ACRONYM or SYMBOL</u></b>	<b><u>DESCRIPTION</u></b>
2SLB	2-stroke lean burn
4SLB	4-stroke lean burn
4SRB	4-stroke rich burn
μm	micrometer (or micron, 10 <sup>-6</sup> meter)
acfm	actual cubic feet per minute
ANSI	American National Standards Institute
AP-42	compilation of air pollutant emission factors (U.S. EPA)
AQI	Air Quality Index
ASTM	American Society for Testing and Materials (now ASTM International)
BACT	best available control technology
BOA	KDHE Bureau of Air
Btu	British thermal unit
CAA	Clean Air Act (1970)
CAAA	Clean Air Act Amendments (1990)
CAS	Chemical Abstracts Service
CBSA	Core-Based Statistical Area
CD	compliance demonstration (form)
CDE	control device efficiency
CE	capture efficiency
CEM	continuous emission monitor(ing)
CEMS	continuous emission monitoring system
CFC	chlorofluorocarbon
cfm	cubic feet per minute
CFR	Code of Federal Regulations
CISWI	commercial/industrial solid waste incinerator
CMS	continuous monitoring system
CO	carbon monoxide
COM	continuous opacity monitor(ing)
COMS	continuous opacity monitoring system
CPM	continuous parameter monitor(ing)
CPMS	continuous parameter monitoring system
CR	certification (form)
CSAPR	Cross-State Air Pollution Rule
CTG	Control Techniques Guideline (U.S. EPA)
DDGS	distillers dry grain solubles
dscf	dry standard cubic foot
dscm	dry standard cubic meter

<b><u>ACRONYM or SYMBOL</u></b>	<b><u>DESCRIPTION</u></b>
DSI	dry sorbent injection
E10	10% ethanol blend (10% ethanol, 90% gasoline by volume)
EF	emission factor
EG	emission guideline
EGU	electric generating unit
EI	emissions inventory
EM	emission calculations (form)
EPA	Environmental Protection Agency (or U.S. EPA)
EU	emission unit
FE	fugitive emission
FESOP	federally enforceable state operating permit
FGD	flue gas desulfurization
FGR	flue gas recirculation
FIP	federal implementation plan
g	gram
GDF	gasoline dispensing facility
GDV	gasoline delivery vessel
GEP	good engineering practice
GI	general information (form)
GOP	General Operating Permit
gph	gallons per hour
gpm	gallons per minute
gr	grain (1/7000 lb avoirdupois)
HAP	hazardous air pollutant
HC	hydrocarbon
HCFC	hydrochlorofluorocarbon
HMIWI	hospital/medical/infectious waste incinerator
HON	hazardous organic NESHAP
hp	horsepower
IA	insignificant activity
ICE	internal combustion engine
JCDHE	Johnson County Department of Health and Environment
K.A.R.	Kansas Administrative Regulation
KDHE	Kansas Department of Health and Environment
K.S.A.	Kansas Statutes Annotated
kW	kilowatt
LAER	lowest achievable emission rate
LFGE	landfill gas-to-energy
LNB	low NO <sub>x</sub> burner
MACT	maximum achievable control technology
MATS	Mercury and Air Toxics Standards (rule)

<b><u>ACRONYM or SYMBOL</u></b>	<b><u>DESCRIPTION</u></b>
MBtu	thousand Btu
ME	monitoring equipment (form)
Mg	megagram (10 <sup>6</sup> grams, 1 metric ton, 1 tonne)
MMBtu	million Btu
MOD	modification (form)
MON	miscellaneous organic NESHAP
MSDS	material safety data sheet
MSW	municipal solid waste
MWC	municipal waste combustor
MWI	medical waste incinerator
NAAQS	National Ambient Air Quality Standards
NAICS	North American Industry Classification System
NCDO	North Central District Office (KDHE)
NEDO	Northeast District Office (KDHE)
NESHAP	national emission standard(s) for hazardous air pollutants
NMOC	non-methane organic compound
NO <sub>x</sub> , NOX	nitrogen oxides
NSPS	new source performance standard
NSR	new source review
NWDO	Northwest District Office (KDHE)
OAQPS	Office of Air Quality Planning and Standards (U.S. EPA)
OM&M	operation, maintenance, and monitoring
OSHA	Occupational Safety and Health Administration (U.S. Dept. of Labor)
P2	pollution prevention
PAL	plant-wide applicability limitation
PCB	polychlorinated biphenyl
PCD	pollution control device
PM	particulate matter
PM <sub>10</sub> , PM10	PM with an aerodynamic diameter of less than or equal to 10 µm
PM <sub>2.5</sub> , PM2.5	PM with an aerodynamic diameter of less than or equal to 2.5 µm
PMD	portable monitoring device
ppmv	parts per million, volumetric basis
ppmw	parts per million, weight basis
PSD	prevention of significant deterioration
psia	pounds per square inch, absolute
psig	pounds per square inch, gauge or gage
PTE	potential to emit, potential-to-emit
QA/QC	quality assurance / quality control
RACM	reasonably available control measure(s)
RACT	reasonable available control technology
RATA	relative accuracy test audit

<b><u>ACRONYM or SYMBOL</u></b>	<b><u>DESCRIPTION</u></b>
RICE	reciprocating internal combustion engine
RMP	risk management plan
RTO	regenerative thermal oxidizer
RVP	Reid vapor pressure (psia at 100 °F)
SBEAP	(Kansas) Small Business Environmental Assistance Program
SCDO	South Central District Office (KDHE)
scfm	standard cubic feet per minute
SCR	selective catalytic reduction
SEDO	Southeast District Office (KDHE)
SEP	supplemental environmental project
SIC	Standard Industrial Classification (code)
SIP	state implementation plan
SLEIS	State and Local Emissions Inventory System (emissions inventory database)
SNCR	selective non-catalytic reduction
SOCMI	synthetic organic chemical manufacturing industry
SO <sub>x</sub> , SOX	sulfur oxides (typically measured as sulfur dioxide, SO <sub>2</sub> )
SPP	Southwest Power Pool (electric grid operator for Kansas)
SWDO	Southwest District Office (KDHE)
TCO	thermal catalytic oxidizer
TDF	tire-derived fuel
THC	total hydrocarbons
TO	thermal oxidizer
TOC	total organic carbon; total organic compounds
TOG	total organic gases
tph	tons per hour
tpy	tons per year
TR	Transport Rule
TRS	total reduced sulfur
TSP	total suspended particulate(s)
ULSD	ultra low sulfur diesel
U.S. EPA, USEPA	United States Environmental Protection Agency
USC	United States Code
VOC	volatile organic compound
VOL	volatile organic liquid
VRU	vapor recovery unit
WDEH	Wichita Department of Environmental Health
WDF	waste-derived fuel
WDGS	wet distiller's grains with solubles
WTE	waste to energy
WYCO-KCK	Unified Government of Wyandotte County and Kansas City, Kansas Health Department

Attachment B

Site Diagram





Attachment C

Consent Decree Civil Action No. 17-1661

UNITED STATES DISTRICT COURT  
FOR THE WESTERN DISTRICT OF LOUISIANA  
LAFAYETTE DIVISION

UNITED STATES OF AMERICA,

and

THE LOUISIANA DEPARTMENT OF  
ENVIRONMENTAL QUALITY,

and

THE KANSAS DEPARTMENT OF HEALTH  
AND ENVIRONMENT,

Plaintiffs,

v.

COLUMBIAN CHEMICALS COMPANY,

Defendant.

Civil Action No. 17-1661

**CONSENT DECREE**

## **TABLE OF CONTENTS**

<b>I. JURISDICTION AND VENUE .....</b>	<b>3</b>
<b>II. APPLICABILITY.....</b>	<b>3</b>
<b>III. DEFINITIONS .....</b>	<b>4</b>
<b>IV. CIVIL PENALTY .....</b>	<b>24</b>
<b>V. ENVIRONMENTAL MITIGATION .....</b>	<b>26</b>
<b>VI. SO<sub>2</sub> CONTROL TECHNOLOGY, EMISSIONS LIMITS, AND MONITORING REQUIREMENTS .....</b>	<b>27</b>
<b>VII. NO<sub>x</sub> CONTROL TECHNOLOGY, EMISSIONS LIMITS, AND MONITORING REQUIREMENTS .....</b>	<b>30</b>
<b>VIII. PM CONTROL TECHNOLOGY, EMISSIONS LIMITS, BEST MANAGEMENT PRACTICES, AND EARLY WARNING SYSTEM REQUIREMENTS.....</b>	<b>36</b>
<b>IX. PROHIBITION ON USE OF FLARES AND HICKOK EXISTING TAIL GAS BOILER .....</b>	<b>41</b>
<b>X. PROHIBITION ON NETTING CREDITS OR OFFSETS .....</b>	<b>43</b>
<b>XI. PERMITS.....</b>	<b>44</b>
<b>XII. REVIEW AND APPROVAL OF SUBMITTALS .....</b>	<b>49</b>
<b>XIII. RECORDKEEPING AND REPORTING REQUIREMENTS .....</b>	<b>50</b>
<b>XIV. STIPULATED PENALTIES.....</b>	<b>56</b>
<b>XV. FORCE MAJEURE .....</b>	<b>61</b>
<b>XVI. AFFIRMATIVE DEFENSES TO CERTAIN STIPULATED PENALTIES.....</b>	<b>64</b>
<b>XVII. DISPUTE RESOLUTION.....</b>	<b>67</b>
<b>XVIII. INFORMATION COLLECTION AND RETENTION.....</b>	<b>70</b>
<b>XIX. EFFECT OF SETTLEMENT / RESERVATION OF RIGHTS.....</b>	<b>72</b>
<b>XX. COSTS.....</b>	<b>74</b>
<b>XXI. NOTICES .....</b>	<b>75</b>

<b>XXII. EFFECTIVE DATE.....</b>	<b>78</b>
<b>XXIII. RETENTION OF JURISDICTION .....</b>	<b>78</b>
<b>XXIV. MODIFICATION .....</b>	<b>79</b>
<b>XXV. SALES OR TRANSFER OF OPERATIONAL OR OWNERSHIP INTERESTS ....</b>	<b>79</b>
<b>XXVI. PUBLIC PARTICIPATION.....</b>	<b>81</b>
<b>XXVII. TERMINATION .....</b>	<b>81</b>
<b>XXVIII. SIGNATORIES/SERVICE.....</b>	<b>85</b>
<b>XXIX. INTEGRATION .....</b>	<b>85</b>
<b>XXX. FINAL JUDGMENT.....</b>	<b>85</b>
<b>XXXI. APPENDICES.....</b>	<b>86</b>
<b>APPENDIX A: ENVIRONMENTAL MITIGATION PROJECTS .....</b>	<b>A1</b>
<b>APPENDIX B: OTHER PM CONTROL REQUIREMENTS .....</b>	<b>B1</b>
<b>APPENDIX C: PARTICULATE EMISSIONS BEST MANAGEMENT PRACTICES CONTROL PLAN .....</b>	<b>C1</b>
<b>APPENDIX D: PM EARLY WARNING SYSTEM.....</b>	<b>D1</b>
<b>APPENDIX E: PROTOCOL FOR SETTING FINAL SO<sub>2</sub> EMISSION LIMITS AT NORTH BEND .....</b>	<b>E1</b>
<b>APPENDIX F: PROTOCOL FOR SETTING FINAL NO<sub>x</sub> EMISSION LIMITS AT HICKOK .....</b>	<b>F1</b>

WHEREAS, Plaintiffs, the United States of America (“the United States”), on behalf of the United States Environmental Protection Agency (“EPA”), the State of Louisiana (through the Louisiana Department of Environmental Quality (“LDEQ”)), and the State of Kansas (through the Kansas Department of Health and Environment (“KDHE”)) (“Plaintiff-States”), are concurrently with this Consent Decree filing a complaint (“Complaint”) against Columbian Chemicals Company (“Defendant”) pursuant to Sections 113(b), 167, and 304 of the Clean Air Act (“Clean Air Act” or “the Act”), 42 U.S.C. §§ 7413(b), 7477 and 7604. The Complaint seeks injunctive relief and the assessment of civil penalties for violations of one or more of the following statutory and regulatory requirements of the Act at Defendant’s North Bend and Hickok carbon black facilities: the Prevention of Significant Deterioration (“PSD”) provisions of the Act, 42 U.S.C. §§ 7470-7492; the nonattainment New Source Review (“Nonattainment NSR”) provisions of the Act, 42 U.S.C. §§ 7501-7515; the federally-approved and enforceable Louisiana and Kansas State Implementation Plans (“SIPs”), which incorporate and/or implement the above-listed federal PSD and/or Nonattainment NSR requirements; and Title V of the Act, 42 U.S.C. §§ 7661-7661f and/or Title V’s implementing federal and state regulations;

WHEREAS, EPA contends that this settlement is part of EPA’s national enforcement initiative to control air pollution from the largest sources of emissions, including carbon black manufacturing facilities;

WHEREAS, the Complaint allege, *inter alia*, that Defendant failed to obtain the necessary permits and install and Continuously Operate the controls necessary to reduce sulfur dioxide (“SO<sub>2</sub>”), nitrogen oxides (“NO<sub>x</sub>”) and particulate matter (“PM”), including without limitation particulate matter with a diameter of ten microns or less (“PM<sub>10</sub>”), and comply with requirements for monitoring, record-keeping, and reporting, as specified in the Act;

WHEREAS, EPA provided Defendant, LDEQ, and KDHE, with actual notice of the alleged violations, in accordance with Sections 113(a)(1) and (b) of the Clean Air Act, 42 U.S.C. §§ 7413(a)(1) and (b);

WHEREAS, Defendant stipulates for purposes of this Consent Decree that it does not contest the adequacy of the notice provided;

WHEREAS, Defendant does not admit any liability to the United States or Plaintiff-States (collectively “Plaintiffs”) arising out of the acts or omissions alleged in the Complaint and this Consent Decree resolves all allegations stated in the Complaint;

WHEREAS, Defendant conducted, and shared with EPA the results of, (1) Control Technology testing information, and (2) stack testing of SO<sub>2</sub> and NO<sub>x</sub> emission rates for North Bend;

WHEREAS, the Plaintiffs and Defendant (collectively “the Parties”) have agreed that settlement of this action is in the public interest and will result in air quality improvements, and that entry of this Consent Decree without further litigation is the most appropriate means of resolving this matter; and

WHEREAS, the Parties recognize, and the Court by entering this Consent Decree finds, that this Consent Decree has been negotiated by the Parties in good faith and will avoid litigation between the Parties and that this Consent Decree is fair, reasonable and in the public interest.

NOW, THEREFORE, before the taking of any testimony, without the adjudication or admission of any issue of fact or law except as provided in Section I (Jurisdiction and Venue), below, and with the consent of the Parties, IT IS HEREBY ADJUDGED, ORDERED AND DECREED as follows:

## **I. JURISDICTION AND VENUE**

1. This Court has jurisdiction over this action, the subject matter herein, and over the Parties consenting hereto, pursuant to 28 U.S.C. §§ 1331, 1345, 1355, and 1367, and pursuant to Sections 113, 167, and 304 of the Act, 42 U.S.C. §§ 7413, 7477, and 7604.

2. Venue lies in this district pursuant to Section 113(b) of the Act, 42 U.S.C. § 7413(b), and 28 U.S.C. § 1391(b) and (c), because some of the violations alleged in the Complaint are alleged to have occurred in, and Defendant resides in and conducts business in, this district.

3. At least 30 Days prior to the Date of Lodging of this Consent Decree, EPA notified the States of Louisiana and Kansas, and Defendants of the violations alleged in the Complaint, as required by Section 113(a)(1) of the CAA, 42 U.S.C. § 7413(a)(1).

4. Solely for purposes of this Consent Decree and the underlying Complaint, and any action to enforce this Consent Decree, Defendant consents to this Court's jurisdiction over Defendant and any action to enforce this Consent Decree and to venue in this judicial district. Defendant consents to and shall not challenge entry of this Consent Decree or this Court's jurisdiction to enter and enforce this Consent Decree. Except as expressly provided for herein, this Consent Decree shall not create any rights in or obligations of any Party other than the Parties to this Consent Decree.

5. Except as provided in Section XXVI (Public Participation) of this Consent Decree, the Parties consent to entry of this Consent Decree without further notice.

## **II. APPLICABILITY**

6. Upon the Effective Date, the obligations of this Consent Decree shall apply to,

and be binding upon, the United States, the Plaintiff-States, and upon Defendant and any



successors, assigns, or other entities or persons otherwise bound by law.

7. Defendant shall provide a copy of this Consent Decree to all officers, employees, and agents whose duties include compliance with any provision of this Decree, as well as to any Contractor retained to provide services required to comply with the provisions of this Consent Decree. Defendant shall condition any agreement with such Contractor upon performance of the services in conformity with the provisions of this Consent Decree. In any action to enforce this Consent Decree, Defendant shall not raise as a defense the failure by any of its officers, directors, employees, agents, or Contractors to take any actions necessary to comply with the provisions of this Consent Decree. Notwithstanding any retention of any such entities to perform any work required under this Consent Decree, Defendant shall ensure that all work is performed in accordance with the requirements of this Consent Decree.

### **III. DEFINITIONS**

8. Terms used in this Consent Decree that are defined in the Act or in regulations promulgated by EPA pursuant to the Act shall have the meanings assigned to them in the Act or such regulations, unless otherwise provided in this Decree. Whenever the terms set forth below are used in this Consent Decree, the following definitions shall apply:

- a. “3-hour Average Emissions Limit” shall mean the limit on average hourly emissions specified in Paragraph 31, determined in accordance with Paragraph 32, of this Consent Decree (subject to Section XVI, below).
- b. “7-day Rolling Average Emissions Limit” shall mean the limit on average daily emissions during the preceding seven Operating Days, specified in Paragraphs 17 and 26. For purposes of clarity, to calculate the average daily emissions to compare against the limit, the first complete 7-day

average compliance period is seven Operating Days after the Date of Continuous Operation (e.g., if the Date of Continuous Operation is January 1, the first Day in the averaging period is January 1 and the first complete 7-day average compliance period is January 1 – January 7, provided each Day qualifies as an Operating Day), and all emissions that occur during the specified period, including emissions during all periods of Malfunction (subject to Section XVI, below) within an Operating Day, shall be included in the calculation.

- c. “30-day Rolling Average Sulfur Content Weight Percent” shall mean the arithmetic average of weighted daily average sulfur contents in feedstock to all reactors as a weight percent during the preceding 30 Operating Days, as specified in Paragraph 21. It shall equal  $S_{30}$  and shall be calculated as follows:

$$S_{30} = \sum_{jj=1}^{30} \left[ \sum_{ii=1}^n \frac{100 * MM_{SS,ii,jj}}{MM_{FF,TT,jj}} \right] / 30$$

Where:

$\sum_{jj=1}^{30}$  = Sum from Day 1 through Day 30

$n$  = Number of reactors at the Hickok plant

$\sum_{ii=1}^n$  = Sum for reactors 1 through  $n$

$M_{S,ij}$  = Mass of sulfur in the feedstock delivered to reactor  $i$  in a Day  $j$ , in pounds, as measured by a continuous mass flow monitoring system

Where:

$$M_{S,ij} = (SS_{FF,ii,jj} * MM_{FF,ii,jj}) / 100$$

$S_{F,i,j}$  = The average sulfur content of the feed to reactor i in Day j, in weight percent, as derived using the sulfur contents for each feedstock storage tank feeding the reactor by Paragraph 22.a or 22.b

Where:

$$S_{F,i,j} = 100 * \sum_{kk=1}^m (SS_{TT,kk,jj} * MM_{TT,kk,jj}) / (100 * MM_{FF,ii,jj})$$

$m$  = Number of feedstock storage tanks at the Hickok plant

$S_{T,k,j}$  = The sulfur content of the feed delivered from storage tank k to reactor i in Day j, in weight percent, as derived for each feedstock storage tank feeding the reactor by Paragraph 22.a or 22.b

$M_{T,k,j}$  = Total mass of feedstock delivered from storage tank k to reactor i in Day j, in pounds, as measured by a continuous mass flow monitoring system

$M_{F,i,j}$  = Total mass of feedstock pounds delivered to reactor i from all storage tanks in a calendar Day j, in pounds, as measured by a continuous mass flow monitoring system

$M_{F,T,j}$  = Total mass of feedstock delivered to all reactors in a calendar Day j, in pounds, as measured by a continuous mass flow monitoring system

Where:

$$M_{F,T,j} = \sum_{ii=1}^n MM_{FF,ii,jj}$$

For purposes of clarity, the first complete 30-day average compliance period is 30 Operating Days after the Date of Continuous Operation (e.g., if the Date of Continuous Operation is January 1, the first Day in the averaging period is January 1 and the first complete 30-day average compliance period is January 1 - January 30, provided each Day qualifies as an Operating Day).

- d. “365-day Rolling Average Emissions Limit” shall mean the limit on average daily emissions during the preceding 365 Operating Days, specified in Paragraphs 17 and 26. For purposes of clarity, to calculate the average daily emissions to compare against the limit, the first complete 365-day average compliance period is 365 Operating Days after the Date of Continuous Operation (e.g., if the Date of Continuous Operation is January 1, the first Day in the averaging period is January 1 and the first complete 365-day average compliance period is January 1 - December 31, provided each Day qualifies as an Operating Day), and all emissions that occur during the specified period, including emissions during all periods of Malfunction within an Operating Day, shall be included in the calculation.
- e. “365-day Rolling Average Sulfur Content Weight Percent” shall mean the arithmetic average of weighted daily average sulfur contents in feedstock to all reactors as a weight percent during the preceding 365 Operating Days, specified in Paragraph 21. It shall equal  $S_{365}$  and shall be calculated as follows:

$$S_{365} = \sum_{jj=1}^{365} \left[ \sum_{ii=1}^n \frac{100 * MM_{SS,ii,jj}}{MM_{FF,TT,jj}} \right] / 365$$

Where:

$\sum_{jj=1}^{365}$  = Sum from Day 1 through Day 365

$n$  = Number of reactors at the Hickok plant

$\sum_{ii=1}^n$  = Sum for reactors 1 through  $n$

$M_{S,i,j}$  = Mass of sulfur in the feedstock delivered to reactor i in a calendar Day j, in pounds, as measured by a continuous mass flow monitoring system

Where:

$$M_{S,i,j} = (SS_{FF,ii,jj} * MM_{FF,ii,jj}) / 100$$

$S_{F,i,j}$  = The average sulfur content of the feed to reactor i in Day j, in weight percent, as derived using the sulfur contents for each feedstock storage tank feeding the reactor by Paragraph 22.a or 22.b

Where:

$$S_{F,i,j} = 100 * \sum_{kk=1}^{mm} (SS_{TT,kk,jj} * MM_{TT,kk,jj}) / (100 * MM_{FF,ii,jj})$$

$m$  = Number of feedstock storage tanks at the Hickok plant

$S_{T,k,j}$  = The sulfur content of the feed delivered from storage tank k to reactor i in Day j, in weight percent, as derived for each feedstock storage tank feeding the reactor by Paragraph 22

$M_{T,k,j}$  = Total mass of feedstock delivered from storage tank k to reactor i in Day j, in pounds, as measured by a continuous mass flow monitoring system

$M_{F,i,j}$  = Total mass of feedstock pounds delivered to reactor i from all storage tanks in a Day j, in pounds, as measured by a continuous mass flow monitoring system

$M_{F,T,j}$  = Total mass of feedstock delivered to all reactors in a calendar Day j, in pounds, as measured by a continuous mass flow monitoring system

Where:

$$M_{F,T,j} = \sum_{ii=1}^{nn} MM_{FF,ii,jj}$$

For purposes of clarity, the first complete 365-day average compliance period is 365 Operating Days after the Date of Continuous Operation (e.g., if the Date of Continuous Operation is January 1, the first Day in the

averaging period is January 1 and the first complete 365-day average compliance period is January 1 - December 31, provided each Day qualifies as an Operating Day).

- f. “365-day Rolling Sum Emissions Limit” shall mean the limit on the sum of daily emissions during the preceding 365 Days, specified in Paragraph 23. For purposes of clarity, to calculate the sum of daily emissions to compare against the limit, the first complete 365-day compliance period is 365 Days after the Date of Continuous Operation (e.g., if the Date of Continuous Operation is January 1, the first Day in the period is January 1 and the first complete 365-day compliance period is January 1 - December 31, provided each Day qualifies as an Operating Day), and all emissions that occur during the specified period, including emissions during all periods of Malfunction within an Operating Day, shall be included in the calculation.
- g. “Alternative Equivalent Pollution Control Technology” shall mean an alternative equivalent pollution control technology installed in accordance with the requirements of Paragraph 19 or 28.
- h. “Boiler(s)” shall mean a new boiler(s) at Hickok, installed after the Date of Entry of this Consent Decree, and shall not mean the Hickok Existing Tail Gas Boiler. However, this definition shall not be construed as precluding Columbian from retrofitting the Hickok Existing Tail Gas Boiler into a Boiler to be used as part of the Low NO<sub>x</sub> Combustion System or Co-Generation System.

- i. “Business Day” shall mean any Day, except for Saturday, Sunday, and federal, State of Louisiana, and State of Kansas holidays.
- j. “Calendar Year” shall mean a 12-Month period.
- k. “CD Emissions Reductions” shall mean any emissions reductions that result from any projects conducted or controls used to comply with this Consent Decree except for Surplus Emission Reductions.
- l. “CEMS” or “Continuous Emission Monitoring System” shall mean, for obligations involving NO<sub>x</sub> and SO<sub>2</sub> under this Consent Decree, the devices defined, installed, calibrated, maintained, and operated in accordance with 40 C.F.R. § 60.13 and 40 C.F.R. Part 60 Appendices A, B and F.
- m. “Clean Air Act” or “Act” shall mean the federal Clean Air Act, 42 U.S.C. §§ 7401-7671q, and its implementing regulations.
- n. “Co-Generation System” shall mean the combination of Low-NO<sub>x</sub> Burners, Over-Fire Air, one or more Boilers and turbines at Hickok, together used to control the flame temperature and mixing characteristics of fuel and oxygen, thus minimizing the formation of NO<sub>x</sub> during combustion of fuel, and which generates electricity from steam.
- o. “Consent Decree” or “Decree” shall mean this Decree and the Appendices attached hereto, but in the event of any conflict between the text of this Decree and any Appendix, the text of this Decree shall control.
- p. “Constituent Part” shall mean all Tail Gas generating and Tail Gas combustion equipment that is part of the North Bend Process System or the Hickok Process System, such as reactors, boilers, dryers, or

incinerators.

- q. “Continuously Operate” or “Continuous Operation” shall mean that, unless otherwise specified, when a Control Technology or a PM Early Warning System is used pursuant to the terms of this Consent Decree, it shall be operated at all times of Process System Operation, consistent with good engineering and maintenance practices for such Control Technology, PM Early Warning System or the Process System, as applicable, and good air pollution control practices for minimizing emissions in accordance with 40 C.F.R. § 60.11(d).
- r. “Contractor” shall mean any person or entity hired by Defendant to perform services on its behalf necessary to comply with the provisions of this Consent Decree.
- s. “Control Technology” shall mean each Selective Catalytic Reduction System, Wet Gas Scrubber, Dry Gas Scrubber, Low NO<sub>x</sub> Combustion System, Co-Generation System, or Alternative Equivalent Pollution Control Technology, installed pursuant to the terms of this Consent Decree, or the PM control mechanisms identified in Appendix B of this Consent Decree.
- t. “Date of Continuous Operation” shall mean the date by which Defendant shall Continuously Operate a Control Technology on a Process System.
- u. “Date of Installation” shall mean the date by which Defendant shall complete installation of a Control Technology on a Process System.
- v. “Date of Lodging of the Consent Decree” or “Date of Lodging” shall



mean the date the Consent Decree is filed for lodging with the Clerk of the Court for the United States District Court for the Western District of Louisiana.

- w. “Day” shall mean a calendar day unless expressly stated to be a Business Day, and means a 24-hour period measured from midnight to midnight.
- x. “Defendant” or “Columbian” shall mean Columbian Chemicals Company.
- y. “Dry Gas Scrubber” or “Semi-Dry Gas Scrubber” (together, “DGS”) shall mean a pollution control device that removes SO<sub>2</sub> from flue gas by injecting a reagent in one or more absorber vessels designed to provide intimate contact and to react with and remove SO<sub>2</sub> from the flue gas stream forming a dry particulate containing reaction products and unreacted reagent which is captured in a particulate control device.
- z. “Effective Date” shall have the meaning set forth in Section XXII (Effective Date).
- aa. “Emissions Limit” shall mean the maximum allowable emissions in units as specified in this Consent Decree, measured in accordance with this Consent Decree, met to the number of significant digits in which the limit is expressed. For example, an Emissions Limit of 0.100 is not met if the actual emission is 0.101. The fourth significant digit shall be rounded to the nearest third significant digit, or the third significant digit to the nearest second significant digit, depending upon whether the limit is expressed to three or two significant digits. For example, if an actual emission is 0.1004, that shall be reported as 0.100, and shall be in

compliance with an Emission Limit of 0.100, and if an actual Emission Limit is 0.1005, that shall be reported as 0.101, and shall not be in compliance with an Emission Limit of 0.100. The following Emissions Limits are specified in this Consent Decree: 3-hour Average Emissions Limit, 7-day Rolling Average Emissions Limit, 365-day Rolling Average Emissions Limit, 365-day Rolling Sum Emissions Limit, Final 7-day Rolling Average Emissions Limit, Final 365-day Rolling Average Emissions Limit, Interim 7-day Rolling Average Emissions Limit, Interim 365-day Rolling Average Emissions Limit.

- bb. “EPA” shall mean the United States Environmental Protection Agency and any of its successor departments or agencies.
- cc. “Environmental Mitigation Project” shall mean a project funded or implemented by Defendant as a remedial measure to mitigate alleged harm to human health or the environment claimed to have been caused by the alleged violations described in the Complaint.
- dd. “Facilities” shall mean North Bend and Hickok, the Defendant’s facilities used for the manufacture of carbon black, each of which may be referred to as a “Facility.”
- ee. “Final 7-day Rolling Average Emissions Limit” shall mean the applicable Final 7-day Rolling Average Emissions Limit set forth in the table in Paragraph 17 or Paragraph 26 and established pursuant to the protocol specified in Appendix E or Appendix F.
- ff. “Final 365-day Rolling Average Emissions Limit” shall mean the

applicable Final 365-day Rolling Average Emissions Limit set forth in the table in Paragraph 17 or Paragraph 26 and established pursuant to the protocol specified in Appendix E or Appendix F.

- gg. “Flare” shall mean a combustion device that uses an uncontrolled volume of ambient air to burn gases.
- hh. “gr/dscf” shall mean grains per dry standard cubic foot.
- ii. “Heat Load Operation” shall mean the operation of any carbon black reactor, boiler or dryer combustor/burner at a Facility under any of the following conditions: (1) at a reactor, when there is no oil feed but only natural gas and combustion air supplied to the reactor burner, and the reactor is not manufacturing carbon black and generating Tail Gas, including, but not limited to, during periods of Startup and Shutdown, (2) at a reactor, during the periods either prior to or at the conclusion of Process System Operation, each of which shall be as short as practicable and shall not exceed 10 minutes, when transitioning between (A) an operational mode in which oil, natural gas, and combustion air are all fed to the reactor burner and the reactor is manufacturing carbon black and generating Tail Gas, and (B) an operational mode, including, but not limited to, during periods of Startup and Shutdown, in which no oil but only natural gas and combustion air are supplied to the reactor, (3) for Hickok only, at a boiler, and for North Bend only, at an incinerator(s), when there is no oil feed to the reactors but only natural gas and combustion air (and not Tail Gas generated by a reactor during Process

System Operation) are fed to the boiler or incinerator(s), including, but not limited to, during periods of Startup and Shutdown, or (4) at a dryer combustor/burner, when only natural gas and combustion air (and not Tail Gas generated by a reactor during Process System Operations) are fed to the dryer combustor/burner, including, but not limited to, during periods of Startup and Shutdown.

- jj. “Hickok” shall mean Defendant’s carbon black facility located at  
  
3500 South Road S  
Ulysses, Kansas 67880
- kk. “Hickok Existing Tail Gas Boiler” shall mean the tail gas boiler in operation at Hickok as of the Date of Lodging of this Consent Decree and described in the Kansas Air Emission Source Construction Permit with an effective date of December 22, 2011.
- ll. “Hickok Non-Assisted Flare” shall mean the Non-Assisted Flare at Hickok.
- mm. “Hickok NOx Cap” shall mean the cap on NOx emissions at Hickok specified in Paragraph 30.
- nn. “Hickok Process System” shall mean, collectively, all Tail Gas generating and Tail Gas combustion equipment, including, all reactors and the future tail-gas boiler(s), and, any feedstock heaters and preheaters that are fueled by Tail Gas, necessary for the manufacture of carbon black, at that Facility. At the Date of Entry of this Consent Decree, Hickok’s feedstock heaters and preheaters are steam-fed and excluded from the definition of

Hickok Process System.

- oo. “Inspection at the Low NO<sub>x</sub> Combustion System” or “Inspection at the Co-Generation System” shall mean the outage at the Low NO<sub>x</sub> Combustion System or at the Co-Generation System at Hickok, to inspect and maintain the Low NO<sub>x</sub> Combustion System or the Co-Generation System, as applicable. For purposes of Section IX (Prohibition On Use Of Flares And Hickok Existing Tail Gas Boiler) of this Decree, the outage shall not exceed 168 hours in duration and may not be conducted more frequently than once every 12 Months as necessary to comply with American Society for Testing and Materials and insurance requirements.
- pp. “Interim 7-day Rolling Average Emissions Limit” shall mean the applicable Interim 7-day Rolling Average Emissions Limit set forth in the table in Paragraph 17 or Paragraph 26.
- qq. “Interim 365-day Rolling Average Emissions Limit” shall mean the applicable Interim 365-day Rolling Average Emissions Limit set forth in the table in Paragraph 17 or Paragraph 26.
- rr. “KDHE” shall mean the Kansas Department of Health and Environment.
- ss. “LDEQ” shall mean the Louisiana Department of Environmental Quality.
- tt. “Limestone WGS” shall mean a caustic-assisted pollution control device that removes SO<sub>2</sub> and PM from flue gas through contact with a scrubbing liquid derived from a water source. A Limestone WGS is not a Seawater WGS.
- uu. “Low NO<sub>x</sub> Combustion System” shall mean the combination of Low-NO<sub>x</sub>

Burners, Over-Fire Air, and a Boiler(s) at Hickok, together used to control the flame temperature and mixing characteristics of fuel and oxygen, thus minimizing the formation of NO<sub>x</sub> during combustion of fuel in the Boiler(s).

- vv. “Main Bag Collector” shall mean a fabric filtration unit, equipped with bag filters or their equivalent, which, during periods of carbon black production, receives carbon black and Tail Gas from the reactor and separates the carbon black from the Tail Gas.
- ww. “Malfunction” as used in this Consent Decree shall have the same meaning as defined at 40 C.F.R. § 60.2.
- xx. “Method 9” shall mean the methodology in 40 C.F.R. Part 60, Appendix A.
- yy. “Method 9 Trained Observer” shall mean a person who is trained in conducting visual assessments pursuant to Method 9.
- zz. “Method 22” shall mean the methodology in 40 C.F.R. Part 60, Appendix A.
- aaa. “Method for Managing PM Emissions” shall mean the method for managing PM emissions identified in the third column of Appendix B.
- bbb. “Month” shall mean a calendar month.
- ccc. “National Ambient Air Quality Standards” or “NAAQS” shall mean national ambient air quality standards that are promulgated pursuant to Section 109 of the Act, 42 U.S.C. § 7409.
- ddd. “NO<sub>x</sub>” shall mean oxides of nitrogen, measured in accordance with the

provisions of this Consent Decree.

eee. “Non-Assisted Flare” shall mean a Flare that is not assisted by steam or by air.

fff. “Nonattainment NSR” shall mean the nonattainment area New Source Review program within the meaning of Part D of Subchapter I of the Act, 42 U.S.C. §§ 7501-7515, 40 C.F.R. Part 51, and any applicable State Implementation Plan.

ggg. “North Bend” shall mean Defendant’s carbon black facility located at  
370 Columbian Chemicals Lane  
Centerville, LA 70522

hhh. “North Bend Process System” shall mean, collectively, all Tail Gas generating and Tail Gas combustion equipment, including, all reactors, dryers, and incinerators necessary for the manufacture of carbon black, at that Facility.

iii. “Notices of Violation” shall mean the notices of violation issued by EPA to Columbian on August 14, 2012 and August 29, 2012.

jjj. “Operating Day” shall mean any Day of Process System Operation.

kkk. “Optimization and Demonstration Study” shall mean (a) a study to optimize and demonstrate the performance of a WGS, DGS, or Alternative Equivalent Pollution Control Technology to minimize SO<sub>2</sub> emissions from the North Bend Process System in accordance with the requirements of Paragraph 3 of Appendix E of this Consent Decree, or (b) a study to optimize and demonstrate the performance of a Low NO<sub>x</sub> Combustion

System or Co-Generation System to minimize NO<sub>x</sub> emissions from the Hickok Process System in accordance with the requirements of Paragraph 3 of Appendix F of this Consent Decree.

- lll. “Over-Fire Air” shall mean an in-boiler staged combustion control at Hickok which limits the amount of combustion air introduced into the burner zone theoretically required to burn all of the fuel. Additional combustion air is then introduced after the burner zone through over-fire air ports to complete the combustion of fuel. The staged combustion of over-fire air reduces the oxygen concentrations in the lower furnace, thereby limiting the oxidation of fuel bound nitrogen and the formation of fuel NO<sub>x</sub>.
- mmm. “Paragraph” shall mean a portion of this Decree identified by an Arabic numeral.
- nnn. “Particulate Emissions Best Management Practices Control Plan” shall mean the plan for identifying sources of particulate emissions and the measures to reduce such emissions that is reflected in Appendix C to this Consent Decree.
- ooo. “Parties” shall mean the United States, Plaintiff-States, and Defendant.
- ppp. “Party” shall mean one of the Parties.
- qqq. “Plaintiff-States” shall mean the LDEQ and the KDHE.
- rrr. “Plaintiffs” shall mean the United States and Plaintiff-States.
- sss. “PM” shall mean filterable particulate matter, measured in accordance with Paragraph 32 of this Consent Decree.



- ttt. “PM Early Warning System” shall mean a probe electrification-type technology (i.e., a system in which a probe is inserted into the emissions stream and measures the momentum of the PM flowing through the duct), or a monitoring system designed to achieve an equivalent level of performance to a probe electrification-type technology that has been approved in advance of use by EPA, that provides early warning detection of excess PM emissions from carbon black production operations by producing a signal that is transmitted to an alarm management system and converted into a numeric readout, over an averaging period of no longer than 15 minutes, as described in Appendix D to this Consent Decree.
- uuu. “PM Emissions Equipment” shall mean the PM emissions equipment identified in the first column of Appendix B.
- vvv. “PM Monitor Point” shall mean the point at which the PM Early Warning System is installed to measure the PM flowing through the duct of each of the Main Bag Collector and Vapor Bag Collector.
- www. “PM Reduction Mechanism” shall mean the PM reduction mechanism identified in the middle column of Appendix B.
- xxx. “ppmvd” means parts per million, volumetric dry.
- yyy. “Process System Operation” shall mean the operation of any Process System or any of its constituent parts when there is oil feed to any reactor burners within such Process System, and the reactor is manufacturing carbon black. Process System Operation ends when oil feed to the reactor burners within such Process System ceases; provided however that any

period of operation meeting the definition of Heat Load Operation shall not constitute Process System Operation.

zzz. “Production Pulsaire” for North Bend and “Receiving Tank Pulsaire” for Hickok shall mean a filtration unit which separates carbon black from the air stream and routes the carbon black to grinders and beading systems. Carbon black is pneumatically conveyed from the Main Bag Collector to the Production Pulsaire for North Bend and Receiving Tank Pulsaire for Hickok.

aaaa. “Project Dollars” shall mean Defendant’s expenditures and payments incurred or made in carrying out the Environmental Mitigation Projects identified in Section V (Environmental Mitigation) and Appendix A (Environmental Mitigation Projects) of this Consent Decree to the extent that such expenditures or payments both: (a) comply with the requirements set forth in Section V (Environmental Mitigation) and Appendix A of this Consent Decree, and (b) constitute Defendant’s direct payments for such projects, or Defendant’s external costs for Contractors, vendors, and equipment. Defendant shall not include its own personnel costs in overseeing the implementation of the Projects as Project Dollars.

bbbb. “PSD” shall mean the Prevention of Significant Deterioration program within the meaning of Part C of Subchapter I of the Clean Air Act, 42 U.S.C. §§ 7470-7492, 40 C.F.R. Part 52, and any applicable State Implementation Plan.

cccc. “Pulsaire” at North Bend and “Dust Collector” at Hickok shall mean a

filtration unit which separates carbon black from the air stream.

dddd. “Reactor Vent Scrubber” shall mean a multistage scrubber employing water as the scrubber medium.

eeee. “Seawater WGS” shall mean a pollution control device that removes SO<sub>2</sub> and PM from flue gas through contact with a scrubbing liquid derived from the Gulf Intracoastal Waterway, as that pollution control device was substantially described in reports submitted to EPA and LDEQ prior to the Date of Lodging.

ffff. “Section” shall mean a portion of this Decree identified by a capitalized Roman numeral.

gggg. “Selective Catalytic Reduction System” or “SCR” shall mean a pollution control system that employs anhydrous, aqueous ammonia or urea reagent injection and a catalyst to speed the reaction of the reagent with NO<sub>x</sub> and to drive the reaction to greater completion, for the purpose of reducing NO<sub>x</sub> emissions.

hhhh. “Shutdown” shall mean the period of ceasing of operation of the North Bend Process System, Hickok Process System, or any of their constituent parts for any purpose, and shall be limited to an operational mode in which no oil and only natural gas and combustion air are supplied to the constituent part.

iiii. “SO<sub>2</sub>” shall mean the pollutant sulfur dioxide, measured in accordance with the provisions of this Consent Decree.

jjjj. “Startup” shall mean the period of setting in operation of the North Bend

Process System, Hickok Process System, or any of their constituent parts, for any purpose, and shall be limited to an operational mode in which no oil and only natural gas and combustion air are supplied to the constituent part.

kkkk. “Surplus Emission Reductions” shall mean reductions in an Emission Limit, 30-day Rolling Average Sulfur Content Weight Percent, and/or 365-day Rolling Average Sulfur Content Weight Percent over and above those required to comply with the requirements of this Consent Decree, to the extent that such reduced Emission Limit, 30-day Rolling Average Sulfur Content Weight Percent, and/or 365-day Rolling Average Sulfur Content Weight Percent is reflected in a federally enforceable emissions limit or requirement, which reductions may or may not take the form of credits that can be transferred to another entity, and is more stringent than the corresponding Emission Limit, 30-day Rolling Average Sulfur Content Weight Percent, and/or 365-day Rolling Average Sulfur Content Weight Percent imposed under this Consent Decree.

llll. “Tail Gas” shall mean the gaseous by-product of the carbon black process, which is generated during periods when there is oil feed to a reactor.

mmmm. “Title V permit” shall mean a permit required by and issued in accordance with the requirements of 42 U.S.C. §§ 7661 - 7661f;

nnnn. “United States” shall mean the United States of America, acting on behalf of EPA.

oooo. “Vapor Bag Collector” shall mean a fabric filtration unit which, during periods of carbon black production, receives water vapor, carbon black, and air at North Bend and combusted natural gas at Hickok, from the carbon black dryers and separates the carbon black from the water vapor and air. Carbon black collected by the Vapor Bag Collector is conveyed to the Production Pulsaire for North Bend via a pneumatic conveying system and to the Pulverizer and the receiving tank to be re-beaded for Hickok.

pppp. “Wet Gas Scrubber” and “WGS” shall mean a Seawater WGS or Limestone WGS.

#### **IV. CIVIL PENALTY**

9. Within 30 Days after the Effective Date of this Consent Decree, Defendant shall pay to the United States a civil penalty of \$260,000. Failure to timely pay the civil penalty shall subject Defendant to interest accruing from the date payment is due until the date payment is made at the rate prescribed by 28 U.S.C. § 1961, and shall render Defendant liable for all charges, costs, fees, and penalties established by law for the benefit of a creditor or of the United States in securing payment. Defendant shall make the above referenced payment by FedWire Electronic Funds Transfer (“EFT” or wire transfer) to the United States Department of Justice account in accordance with current electronic funds transfer procedures, referencing DOJ Case No. 90-5-2-1-10943. Payment shall be made in accordance with instructions provided to Defendant by the Financial Litigation Unit of the United States Attorney’s Office for the Western District of Louisiana. Any payments received by the Department of Justice after 4:00 P.M. (Central Time) will be credited on the next Business Day. At the time of payment,

Defendant shall send a copy of the EFT authorization form and the EFT transaction record, together with a transmittal letter, which shall state that the payment is for the civil penalty owed pursuant to the Consent Decree in *United States, et al. v. Defendant Columbian Chemicals Company*, and shall reference the civil action number and DOJ case number 90-5-2-1-10943, to the United States in accordance with Section XXI (Notices); by email to [acctsreceivable.CINWD@epa.gov](mailto:acctsreceivable.CINWD@epa.gov); and to:

EPA Cincinnati Finance Office  
26 Martin Luther King Drive  
Cincinnati, Ohio 45268

10. Within 30 Days after the Effective Date of this Consent Decree, Defendant shall pay to the LDEQ a civil penalty of \$195,000. If any portion of the civil penalty due to the State is not paid when due, Defendant shall pay interest on the amount past due, accruing from the Effective Date through the date of payment at the rate identified in Paragraph 9 above, by certified check made payable to the Louisiana Department of Environmental Quality, Fiscal Director, Office of Management and Finance, LDEQ, P.O. Box 4303, Baton Rouge, Louisiana 70821-4303, or by EFT to the State of Louisiana in accordance with written instructions to be provided to Defendant upon request.

11. Within 30 Days after the Effective Date of this Consent Decree, Defendant shall pay to the KDHE a civil penalty of \$195,000. If any portion of the civil penalty due to the State is not paid when due, Defendant shall pay interest on the amount past due, accruing from the Effective Date through the date of payment at the rate identified in Paragraph 9 above, by certified check made payable to the Kansas Department of Health and Environment, 1000 SW Jackson, Suite 560, Topeka, Kansas 66612-1371, or by EFT to the State of Kansas in accordance with written instructions to be provided to Defendant upon request.

12. Defendant shall not deduct any penalties paid under this Section or Section XIV (Stipulated Penalties) in calculating its federal or state or local income tax.

#### **V. ENVIRONMENTAL MITIGATION**

13. Defendant shall implement the Environmental Mitigation Projects described in Appendix A of this Consent Decree, in compliance with the schedules for such Environmental Mitigation Projects and the other terms of this Consent Decree. In implementing the Environmental Mitigation Projects, Defendant shall spend no less than a total of \$375,000 in Project Dollars, in the aggregate, for all Environmental Mitigation Projects.

14. All reports prepared by Defendant pursuant to the requirements of this Section of the Consent Decree and required to be submitted to EPA and the applicable Plaintiff-State shall be publicly available (subject to the provisions of Paragraph 96 of this Consent Decree) from Defendant without charge.

15. Defendant shall certify within 30 Days before the start of any Environmental Mitigation Project that Defendant is not otherwise required by law to perform the Environmental Mitigation Project, that Defendant is unaware of any other person who is required by law to perform the Environmental Mitigation Project, and that Defendant will not use any Environmental Mitigation Project, or portion thereof, to satisfy any obligations that it may have under other applicable requirements of law.

16. Defendant shall maintain, and upon Plaintiffs' request, provide to Plaintiffs within 60 Days of such request, all documents that substantiate the work completed on the Environmental Mitigation Projects or the Project Dollars expended to implement the Environmental Mitigation Projects in accordance with Sections XXI (Notices) and XVIII (Information Collection and Retention).

## VI. SO<sub>2</sub> CONTROL TECHNOLOGY, EMISSIONS LIMITS, AND MONITORING REQUIREMENTS

17. SO<sub>2</sub> Process System Operation Emissions Limits and Control Technology. No later than the dates set forth in the table below, Defendant shall install (by the Date of Installation), operate, and Continuously Operate (by the Date of Continuous Operation and continuing thereafter), a WGS or DGS on the North Bend Process System as specified in the table below. Defendant shall Continuously Operate the WGS or DGS on the North Bend Process System as specified in the table below so as to achieve and maintain during Process System Operation (by the Date of Continuous Operation) the Emissions Limits specified in the table below.

Process System	Control Technology	7-day Rolling Average Emissions Limit	365-day Rolling Average Emissions Limit	Date
North Bend Process System	Seawater WGS or Limestone WGS or DGS	Interim 7-day Rolling Average Emissions Limit:  No greater than 158 ppmvd (at 0% oxygen)	Interim 365-day Rolling Average Emissions Limit:  No greater than 130 ppmvd (at 0% oxygen)	Seawater WGS Date of Installation: 4/1/21 Date of Continuous Operation: 10/1/21  Limestone WGS or DGS Date of Continuous Operation: 4/1/21
		Final 7-day Rolling Average Emissions Limit:  Option A: No greater than 120 ppmvd (at 0% oxygen)  Option B: No less than 120 ppmvd (at 0% oxygen) and no greater than	Final 365-day Rolling Average Emissions Limit:  Option A: No greater than 80 ppmvd (at 0% oxygen)  Option B: No less than 80 ppmvd (at 0% oxygen) and no greater than 130	Applicable final Emissions Limit: Pursuant to the protocol specified in Appendix E



<b>Process System</b>	<b>Control Technology</b>	<b>7-day Rolling Average Emissions Limit</b>	<b>365-day Rolling Average Emissions Limit</b>	<b>Date</b>
		ppmvd (at 0% oxygen)	ppmvd (at 0% oxygen)	

18. WGS or DGS Design Specifications. Defendant shall submit to EPA the process design specifications for the WGS or DGS specified in the table above no later than 12 months prior to the start of installation of the WGS or DGS. Defendant shall design the WGS or DGS specified in Paragraph 17 to achieve a minimum of 95% removal of SO<sub>2</sub> emissions at all times at the applicable Process System based on inlet SO<sub>2</sub> concentration of 1200 ppmvd and a minimum of 95% removal of SO<sub>2</sub> emissions at all times at the applicable Process System based on inlet SO<sub>2</sub> concentration of 3800 ppmvd (at 0% oxygen). The process design specifications shall include this information. In addition, if Defendant elects to comply with the applicable Emissions Limit pursuant to Option B, the Parties shall follow the protocol specified in Appendix E.

19. SO<sub>2</sub> Alternative Equivalent Pollution Control Technology. Alternatively, notwithstanding any provision of this Consent Decree to the contrary, no later than the applicable dates set forth in Paragraph 17, Defendant may install and Continuously Operate an Alternative Equivalent Pollution Control Technology that is at least as effective as a WGS or DGS, so as to achieve and maintain the applicable Emissions Limits specified in Paragraph 17, provided there has been prior written request, no later than the applicable date set forth in Paragraph 18, and written approval of such Alternative Equivalent Pollution Control Technology pursuant to Section XII (Review and Approval of Submittals) of this Consent Decree.

20. SO<sub>2</sub> Monitoring Requirements. Beginning no later than the Dates of Continuous Operation specified in Paragraph 17, Defendant shall use a CEMS (in accordance with the terms of this Paragraph) to monitor SO<sub>2</sub> emissions during Process System Operation of each Process System specified therein and to report compliance with the terms and conditions of SO<sub>2</sub> Emission Limits in Paragraph 17 this Consent Decree. Defendant shall install, calibrate, certify, maintain and operate all CEMS in accordance with the equipment manufacturer's specifications and reference methods specified in 40 C.F.R. § 60.13 that are applicable to CEMS, and Part 60, Appendixes A and F, and the applicable performance specification test of 40 C.F.R. Part 60, Appendix B, to demonstrate compliance with the SO<sub>2</sub> Emissions Limits specified in Paragraph 17 of this Consent Decree.

21. Other SO<sub>2</sub> Requirements. No later than the dates set forth in the table below, and continuing thereafter, at all times of Process System Operation at Hickok, Defendant shall process carbon black feedstock with a sulfur content of no greater than the weight specified in the table below:

<b>Process System</b>	<b>30-day Rolling Average Sulfur Content Weight Percent</b>	<b>365-day Rolling Average Sulfur Content Weight Percent</b>	<b>Date</b>
Hickok Process System	2%	1.75%	1/1/19

22. Feedstock Sulfur Content Monitoring Requirements. Beginning no later than the dates specified in the table in Paragraph 21, Defendant shall demonstrate compliance with the 30-day Rolling Average Sulfur Content Weight Percent and the 365-day Rolling Average Sulfur Content Weight Percent in Paragraph 21 by either:

- a. at least once per calendar week, analyzing the sulfur content of the feedstock in each storage tank on a weight % basis and the liquid density in pounds per gallon (lb/gallon), or
- b. within one Business Day of each feedstock delivery, calculating the feedstock sulfur content of each storage tank, through the following equation:

$$S_T = \frac{WV + W_1V_1}{WV + W_1V_1}$$

Where:

$S_T$  = Tank-specific feedstock sulfur content, after the delivery of feedstock into the tank, weight %

$V$  = Volume of the feedstock in the tank, prior to the delivery of feedstock into the tank, gallons

$S$  = Sulfur content of the feedstock in the tank, prior to the delivery of feedstock into the tank, weight %

$\rho$  = Liquid density of the feedstock in the tank, prior to the delivery of feedstock into the tank, lb/gallon

$V_I$  = Volume of feedstock delivered into the tank, gallons

$S_I$  = Sulfur content of the feedstock delivered into the tank as certified by the feedstock supplier, weight %

$\rho_I$  = Liquid density of the feedstock delivered into the tank as certified by the feedstock supplier, lb/gallon

## VII. NO<sub>x</sub> CONTROL TECHNOLOGY, EMISSIONS LIMITS, AND MONITORING REQUIREMENTS

23. NO<sub>x</sub> Emissions Limits Applicable to Heat Load Operation, Startup, and Shutdown. No later than the dates set forth in the table below, and continuing thereafter, Defendant shall operate the reactors, dryers, boilers and incinerators at each Facility (as listed) to

collectively achieve and maintain the Emissions Limits specified in the table below, at all times, collectively, of Heat Load Operation, Startup, and Shutdown:

Facility	365-day Rolling Sum Emissions Limit	Date of Continuous Operation
North Bend	No greater than 72 tons (in total for all reactors, dryers, boilers, and incinerators) for the prior 365 Days	4/1/21 (if installing and Continuously Operating a Limestone WGS or DGS) 10/1/21 (if installing and Continuously Operating a Seawater WGS)
Hickok	No greater than 8 tons (in total for all reactors and boilers) for the prior 365 Days	1/1/21 (if installing and Continuously Operating a Low NO <sub>x</sub> Combustion System) or 1/1/22 (if installing and Continuously Operating a Co-Generation System)

24. Heat Load Operation, Startup, and Shutdown Compliance Calculation. Beginning no later than the dates specified in the table in Paragraph 23, and continuing thereafter, to evaluate compliance with the applicable 365-day Rolling Sum Emissions Limit specified in Paragraph 23, Defendant shall perform the following calculation, for each Day, summing as described, to derive cumulative NO<sub>x</sub> emissions in tons:

$$X = \left( \sum_{i=1}^{365} \frac{\phi * \text{consumption}_i}{2000} \right)$$

Where:

“X” = cumulative NO<sub>x</sub> emissions (tons) during preceding 365 Days

“φ” = 0.48 lbs NO<sub>x</sub>/MMBtu

“i” = each Day in the preceding 365 Days

consumption<sub>i</sub> = the amount of energy input from natural gas and feedstock (in MMBtu) to the Process System per Day for each Day *i* of Heat Load

Operation, Startup, or Shutdown. For any Day in which no Heat Load Operation, Startup, or Shutdown occur, consumption<sub>i</sub> shall equal zero.

25. Alternative Heat Load Operation, Startup, and Shutdown Compliance

Calculation. As an alternative to the calculation in Paragraph 24, beginning no later than the dates specified in the table in Paragraph 23, and continuing thereafter, to evaluate compliance with the applicable 365-day Rolling Sum Emissions Limit specified in Paragraph 23, Defendant may perform an alternative calculation, for each Day, to derive daily NO<sub>x</sub> emissions in tons as a sum for the prior 365 Days, provided there has been prior written request, which specifies the basis for the derivation of such alternative calculation no later than 24 Months from the Effective Date of the Consent Decree, and written approval of such alternative calculation pursuant to Section XII (Review and Approval of Submittals) of this Consent Decree.

26. NO<sub>x</sub> Process System Operation Emissions Limits and Control Technology. No later than the dates set forth in the table below, Defendant shall install (by the Date of Installation), operate, and Continuously Operate (by the Date of Continuous Operation and continuing thereafter), the designated Control Technology on each Process System specified in the table below. Defendant shall Continuously Operate the designated Control Technology on each Process System specified in the table below so as to achieve and maintain during Process System Operation (by the Date of Continuous Operation) the Emissions Limits specified in the table below.

<b>Process System</b>	<b>Control Technology</b>	<b>7-day Rolling Average Emissions Limit</b>	<b>365-day Rolling Average Emissions Limit</b>	<b>Date</b>
North Bend Process System	SCR	No greater than 54 ppmvd (at 0% oxygen)	No greater than 38 ppmvd (at 0% oxygen)	<p>Date of Continuous Operation: 4/1/21 (if installing and Continuously Operating a Limestone WGS or DGS)</p> <p>Date of Installation: 4/1/21 (if installing and Continuously Operating a Seawater WGS)</p> <p>Date of Continuous Operation: 10/1/21 (if installing and Continuously Operating a Seawater WGS)</p>
Hickok Process System	Low NO <sub>x</sub> Combustion System or Co-Generation System <sup>1</sup>	<p>Interim 7-day Rolling Average Emissions Limit:</p> <p>No greater than 375 ppmvd (at 0% oxygen)</p>	<p>Interim 365-day Rolling Average Emissions Limit:</p> <p>No greater than 300 ppmvd (at 0% oxygen)</p>	<p>If Low NO<sub>x</sub> Combustion System</p> <p>Date of Installation: 9/1/20</p> <p>Date of Continuous Operation: 1/1/21</p> <p>If Co-Generation System</p> <p>Date of Installation: 7/1/21</p> <p>Date of Continuous Operation: 1/1/22</p>

<sup>1</sup> No later than 365 Days after the Effective Date of the Consent Decree, Defendant shall notify EPA and KDHE whether it will be installing and Continuously Operating a Low NO<sub>x</sub> Combustion System or a Co-Generation System.

<b>Process System</b>	<b>Control Technology</b>	<b>7-day Rolling Average Emissions Limit</b>	<b>365-day Rolling Average Emissions Limit</b>	<b>Date</b>
		<p>Final 7-day Rolling Average Emissions Limit:</p> <p>Option A: No greater than 120 ppmvd (at 0% oxygen)</p> <p>Option B: No less than 120 ppmvd (at 0% oxygen) and no greater than 375 ppmvd (at 0% oxygen)</p>	<p>Final 365-day Rolling Average Emissions Limit:</p> <p>Option A: No greater than 80 ppmvd (at 0% oxygen)</p> <p>Option B: No less than 80 ppmvd (at 0% oxygen) and no greater than 300 ppmvd (at 0%</p>	<p>Applicable final Emissions Limit: Pursuant to the protocol specified in Appendix F</p>

27. SCR and Low NO<sub>x</sub> Combustion System or Co-Generation System Design Specifications. Defendant shall submit to EPA the process design specifications for each Control Technology specified in the table above no later than 12 Months prior to the start of installation of the pertinent Control Technology. If Defendant elects to comply with the applicable Emissions Limit for the Low NO<sub>x</sub> Combustion System or Co-Generation System pursuant to Option B, the Parties shall follow the protocol specified in Appendix F.

28. NO<sub>x</sub> Alternative Equivalent Pollution Control Technology. Alternatively, notwithstanding any provision of this Consent Decree to the contrary, no later than the applicable dates set forth in Paragraph 26, Defendant may install and Continuously Operate an Alternative Equivalent Pollution Control Technology that is at least as effective as a SCR (North Bend), so as to achieve and maintain the applicable Emissions Limits specified in Paragraph 26, provided there has been prior written request, no later than the applicable date set forth in Paragraph 27,

and written approval of such Alternative Equivalent Pollution Control Technology pursuant to Section XII (Review and Approval of Submittals) of this Consent Decree.

29. NO<sub>x</sub> Monitoring Requirements. Beginning no later than the Dates of Continuous Operation specified in Paragraph 26, Defendant shall use a CEMS (in accordance with the terms of this Paragraph) to monitor NO<sub>x</sub> emissions during Process System Operation of each Process System specified therein and to report compliance with the terms and conditions of the NO<sub>x</sub> Emission Limits (Paragraph 26) of this Consent Decree. Defendant shall install, calibrate, certify, maintain, and operate all CEMS in accordance with the equipment manufacturer's specifications and reference methods specified in 40 C.F.R. § 60.13 that are applicable to CEMS, and Part 60, Appendixes A and F, and the applicable performance specification test of 40 C.F.R. Part 60, Appendix B, to demonstrate compliance with the NO<sub>x</sub> Emissions Limits specified in Paragraph 26 of this Consent Decree.

30. Hickok NO<sub>x</sub> Cap. Defendant shall comply with a Hickok NO<sub>x</sub> Cap of 395 tons per Calendar Year by 365 Days after the Date of Continuous Operation of the Low NO<sub>x</sub> Combustion System or Co-Generation System, as applicable pursuant to Paragraphs 26 - 29. For purposes of determining compliance with the Hickok NO<sub>x</sub> Cap, NO<sub>x</sub> emissions shall be determined for (a) the Low NO<sub>x</sub> Combustion System or Co-Generation System, by measuring emissions using a CEMS in accordance with Paragraph 29 and (b) for the remainder of the Hickok facility, by calculating emissions using the following: (i) dryers (natural gas): NO<sub>x</sub> emissions = (NO<sub>x</sub> factor for dryers (natural gas)) x (MMscf of natural gas used), where the NO<sub>x</sub> factor for the dryers (natural gas) = 230 lbs/MMscf; (ii) natural gas boiler(s): NO<sub>x</sub> emissions = (NO<sub>x</sub> factor for natural gas boiler(s)) x (MMscf of natural gas used), where the NO<sub>x</sub> factor for the natural gas boiler = 230 lbs/MMscf; (iii) reciprocating internal combustion engines: NO<sub>x</sub>



emissions = (NO<sub>x</sub> factor for RICE engines) x (hours of operation), where the NO<sub>x</sub> factor for RICE engines = 0.031 lbs/hour for engines under 1,000 bHP; (iv) natural gas-fired oil heater: NO<sub>x</sub> emissions = (NO<sub>x</sub> factor for natural gas-fired oil heater) x (MMscf of natural gas used), where the NO<sub>x</sub> factor for the natural gas-fired oil heater = 230 lbs/MMscf; (v) Heat Load Operations: NO<sub>x</sub> emissions = (NO<sub>x</sub> factor for Heat Load Operations) x (MMscf of natural gas used), where the NO<sub>x</sub> factor for Heat Load Operations = 230 lbs/MMscf; (vi) Hickok Non-Assisted Flare: NO<sub>x</sub> emissions = (NO<sub>x</sub> factor for Hickok Non-Assisted Flare) x (actual production lbs while Hickok Non-Assisted Flare is operating), where the NO<sub>x</sub> factor for the Hickok Non-Assisted Flare = 15.01 lbs NO<sub>x</sub> per ton of production. Defendant may seek to revise either the NO<sub>x</sub> factors for (b)(i) – (b)(iv), based on additional stack test data, provided there has been a prior written request by Defendant, which specifies the basis for the derivation of such revised factor, and written approval by EPA of such revised factor pursuant to Section XII (Review and Approval of Submittals) of this Consent Decree.

### **VIII. PM CONTROL TECHNOLOGY, EMISSIONS LIMITS, BEST MANAGEMENT PRACTICES, AND EARLY WARNING SYSTEM REQUIREMENTS**

#### **31. PM Control Technology and Emissions Limits.**

- a. No later than the date set forth in the table below, Defendant shall install (by the Date of Installation), and Continuously Operate (by the Date of Continuous Operation), a WGS or DGS on each Process System specified in the table below. Defendant shall Continuously Operate the WGS or DGS on each Process System specified in the table below so as to achieve and maintain during Process System Operation (by the Date of Continuous Operation) the Emissions Limits specified in the table below.

<b>Process System</b>	<b>Control Technology</b>	<b>3-hour Average Emissions Limit for PM</b>	<b>Date</b>
North Bend Process System	Seawater WGS or Limestone WGS or DGS	No greater than 0.0069 gr/dscf	Seawater WGS Date of Installation: 4/1/21 Date of Continuous Operation: 10/1/21  Limestone WGS or DGS Date of Continuous Operation: 4/1/21

b. As an alternative to the Emissions Limit specified in the table in Paragraph 31(a) above, Defendant may elect to use the procedures in this Paragraph 31(b) to set an alternate 3-Hour Average Emissions Limit for the North Bend Process System.

i. If Defendant makes such an election, then, at least 30 Days prior to the Date of Continuous Operation specified for the North Bend Process System in Paragraph 31(a), Defendant shall submit to EPA and the LDEQ written notification in accordance with Section XXI (Notices) of Defendant's election to utilize the procedures in this Paragraph 31(b) to propose an alternate 3-Hour Average Emissions Limit for the North Bend Process System. Defendant shall include with any such notice the proposed alternate 3-Hour Average PM Emissions Limit for the North Bend Process System, as well as the technical basis for such proposal. The technical basis relied upon by Defendant in support of the proposed alternate 3-Hour Average

PM Emissions Limit for the North Bend Process System may include information furnished by the equipment vendor for the WGS or DGS for the North Bend Process System, any particulate matter distribution information developed by Defendant for the North Bend Process System, any PM stack test data collected for the North Bend Process System, as well as other available and relevant information.

- ii. Any such alternate 3-Hour Average Emissions Limit proposed by Defendant shall be no lower than 0.0069 gr/dscf and no higher than 0.015 gr/dscf on a 3-hour average basis, and shall reflect a value which can be met with a reasonable certainty of compliance. After consultation with LDEQ, EPA will determine the adjusted 3-Hour Average Emissions Limit for the North Bend Process System within the range of 0.0069 gr/dscf to 0.015 gr/dscf based on: (i) the information submitted by Defendant pursuant to this Paragraph 31(b), including the level of performance during stack test(s); (ii) a reasonable certainty of compliance; and (iii) any other available and relevant information.
- iii. EPA shall notify Defendant in writing of EPA's determination of the adjusted 3-Hour Average Emissions Limit. During the period from the Date of Continuous Operation specified in Paragraph 31(a) for the North Bend Process System until 60 Days after the date that EPA provides written notification to Defendant of EPA's

determination of the adjusted 3-Hour Average Emissions Limit, Defendant shall comply with the alternate 3-Hour Average PM Emissions Limit proposed by Defendant pursuant to this Paragraph 31(b) for the North Bend Process System.

- iv. Beginning 60 Days after the date that EPA provides written notification to Defendant of EPA's determination of the adjusted 3-Hour Average Emissions Limit for the North Bend Process System, and continuing thereafter, Defendant shall Continuously Operate the WGS or DGS on the North Bend Process System so as to achieve and maintain compliance with the adjusted 3-Hour Average Emissions Limit identified by EPA for such Process Systems.
- v. During any dispute under this Paragraph, Defendant shall continue to operate the WGS or DGS required under Paragraph 31(a) in compliance with the alternate 3-Hour Average PM Emissions Limit proposed by Defendant and in a manner consistent with good air pollution control practices in lieu of meeting the EPA-adjusted 3-Hour Average Emissions Limit under this Paragraph 31(b).

32. PM Stack Testing Requirements. Beginning no later than the Dates of Continuous Operation specified in Paragraph 31, and continuing annually thereafter, Defendant shall conduct a stack test for PM for each Process System specified therein to report compliance with the terms and conditions of this Consent Decree. No two annual tests shall be conducted less than 11 Months apart. The reference methods and procedures for performing PM stack tests

and for determining compliance with the applicable PM 3-hour Average Emissions Limit shall be those specified in 40 C.F.R. § 60.8(f) and 40 C.F.R. Part 60, Appendix A-3, Reference Method 5/5B. Each test shall consist of three separate runs performed under representative operating conditions, not including periods of Startup, Shutdown, or Malfunction. The sampling time for each run shall be at least sixty (60) minutes and the minimum sample volume of each run shall be 30 ft<sup>3</sup> (dry volume, standard temperature basis).

33. Other PM Control Requirements. For all PM Emissions Equipment identified in Appendix B to this Consent Decree, Defendant shall Continuously Operate the associated PM Reduction Mechanism in accordance with the Method for Managing PM Emissions identified therein. Starting no later than 60 Days after the Effective Date of this Consent Decree, once each Operating Day, Defendant shall conduct a Method 22 visual assessment of the emissions from each piece of PM Emissions Equipment identified in Appendix B to this Consent Decree to determine if there are any detectable visible emissions. This Method 22 visual assessment shall be three minutes in duration for each piece of PM Emissions Equipment. In the event that any visible emissions are observed from PM Emissions Equipment during the visual assessment described in this Paragraph, Defendant shall identify, address and resolve the source of visible emissions as expeditiously as practicable. If the visible emissions event occurs after the Date of Continuous Operation of the PM Early Warning System in accordance with Paragraph 35 of this Consent Decree, the event shall be considered resolved once the PM Early Warning System alarm is below the Action Level. If the visible emissions event is not resolved within 24 hours, once visibility conditions are sufficient for a Method 9 observation, Defendant shall conduct a six minute observation in accordance with Method 9 at least once every eight hours (during daylight hours), until visible emissions from the PM Emissions Equipment that triggered the

event are less than 5% over the six minute average. Defendant shall maintain a record of each visual assessment conducted pursuant to this Paragraph sufficient to meet the requirements in Section XIII (Recordkeeping and Reporting Requirements).

34. Particulate Emissions Best Management Practices Control Plan. Within 60 Days of the Effective Date of this Consent Decree, Defendant shall implement the Particulate Emissions Best Management Practices Control Plan reflected in Appendix C at each of its Facilities.

35. PM Early Warning System. No later than the dates set forth in the table below, Defendant shall install, and continuing thereafter, Defendant shall Continuously Operate, a PM Early Warning System in accordance with the protocol specified in Appendix D:

Process System	Date of Continuous Operation
Hickok Process System	1/1/19
North Bend Process System	1/1/19

#### **IX. PROHIBITION ON USE OF FLARES AND HICKOK EXISTING TAIL GAS BOILER**

36. Prohibition On Use Of Hickok Existing Tail Gas Boiler. No later than the Date of Continuous Operation of the Low NO<sub>x</sub> Combustion System or Co-Generation System, as applicable, Defendant shall permanently cease operation of the Hickok Existing Tail Gas Boiler, except in the limited instance of (a) a Malfunction at Hickok that satisfies the requirements of Section XVI (Affirmative Defenses To Certain Stipulated Penalties), (b) Inspection at the Low NO<sub>x</sub> Combustion System or Co-Generation System at Hickok, or (c) Force Majeure that satisfies the requirements of Section XV (Force Majeure). In response to any of these of instances, Defendant shall operate the Hickok Existing Tail Gas Boiler only as necessary to comply with

the carbon black MACT standard (40 C.F.R. § 63.1103(f)), minimize operation of the Hickok Existing Tail Gas Boiler to the extent possible, and operate the Hickok Existing Tail Gas Boiler in accordance with the requirements in Paragraph 38 of this Consent Decree. During operation of the Hickok Existing Tail Gas Boiler in accordance with this Section IX (Prohibition on Use of Flares and Hickok Existing Tail Gas Boiler), the emissions from the Hickok Existing Tail Gas Boiler shall not be included in the calculation of any Emission Limits, but shall be included in the calculation of the Hickok NO<sub>x</sub> Cap.

37. Prohibition On Use Of Flares at Hickok. No later than the Date of Continuous Operation of the Low NO<sub>x</sub> Combustion System or Co-Generation System, as applicable, Defendant shall permanently cease operation of the Hickok Non-Assisted Flare, except in the limited instance of (a) a Malfunction at Hickok that satisfies the requirements of Section XVI (Affirmative Defenses To Certain Stipulated Penalties), (b) Inspection at the Low NO<sub>x</sub> Combustion System or Co-Generation System at Hickok, or (c) Force Majeure that satisfies the requirements of Section XV (Force Majeure). In response to any of these of instances, Defendant shall operate the Hickok Non-Assisted Flare only as necessary to comply with the carbon black MACT standard (40 C.F.R. § 63.1103(f)), minimize operation of the Hickok Non-Assisted Flare to the extent possible, and operate the Hickok Non-Assisted Flare in accordance with the requirements in Paragraph 38 of this Consent Decree. During operation of the Hickok Non-Assisted Flare in accordance with this Section IX (Prohibition on Use of Flares and Hickok Existing Tail Gas Boiler), the emissions from the Hickok Non-Assisted Flare shall not be included in the calculation of any Emission Limits, but shall be included in the calculation of the Hickok NO<sub>x</sub> Cap.

38. Limited Operation of the Hickok Non-Assisted Flare. Defendant shall comply with applicable law at all times the Hickok Non-Assisted Flare is in operation.

39. Prohibition on Use of Flares at North Bend. Prior to termination of this Consent Decree, Defendant shall not operate any Flares at North Bend.

#### **X. PROHIBITION ON NETTING CREDITS OR OFFSETS**

40. Defendant shall neither generate nor use any CD Emissions Reductions: as netting reductions; as emissions offsets; to apply for, obtain, trade, or sell any emission reduction credits; or in determining whether a project would result in a significant emissions increase or significant net emissions increase in any PSD, Non-Attainment NSR, and/or minor New Source Review permit or permit proceeding. Notwithstanding the preceding sentence, Defendant may use CD Emissions Reductions achieved by the prohibition on use of the Hickok Existing Tail Gas Boiler and/or the Hickok Non-Assisted Flare required in Paragraphs 36 and 37 of this Consent Decree for the limited purpose of permitting of the Low NO<sub>x</sub> Combustion System or Co-Generation System at Hickok.

41. The limitations set forth in Paragraph 40 above do not prohibit Defendant from seeking to, nor prohibit an applicable state agency from denying Defendant's ability to, generate or use Surplus Emission Reductions.

42. Nothing in this Section is intended to prohibit Defendant from seeking to, nor to prohibit an applicable state agency from denying, Defendant's ability to use CD Emissions Reductions for compliance with any rules or regulations designed to address regional haze or the non-attainment status of any area (excluding PSD and Non-Attainment NSR rules, but including, for example, Reasonably Achievable Control Technology rules) that apply to the facility; provided, however, that Defendant shall not be allowed to trade or sell any CD Emissions



Reductions. Nothing in this Consent Decree is intended to preclude the CD Emissions Reductions from being considered by a State or EPA for the purpose of attainment demonstrations submitted pursuant to Section 110 of the Act, 42 U.S.C. § 7410, or in determining impacts on NAAQS, PSD increment, or air quality related values, including visibility, in a Class I area.

## **XI. PERMITS**

43. Where any compliance obligation under this Consent Decree requires Defendant to obtain a federal, state, or local permit or approval, Defendant shall submit a timely and complete application for each such permit or approval and take all other actions necessary to obtain all such permits or approvals, allowing for all legally required processing and review, including requests for additional information by the permitting or approval authority necessary to process a permit application to satisfy the compliance obligations established by this Decree. Defendant may seek relief under the provisions of Section XV (Force Majeure) for any delay in the performance of any obligation under this Consent Decree resulting from a failure to obtain, or a delay in obtaining, any permit or approval required to fulfill such obligation, only if Defendant has (a) submitted timely and complete applications in a manner that provides the permitting authority sufficient and reasonable time to process the permit application, (b) responded to requests for additional information by the permitting authority necessary to process the application to satisfy the compliance obligations established by this Decree, (c) taken all other actions necessary to obtain such permits or approvals for the compliance obligations established by this Decree in a timely fashion, and (d) prosecuted appeals of any allegedly unlawful, invalid or otherwise objectionable terms and conditions, if any, imposed by the permitting authority in a timely fashion. Each Plaintiff-State agrees to work cooperatively with

Defendant in reviewing all applications for permits necessary to comply with the requirements of this Consent Decree.

44. In addition to having first obtained any required preconstruction permits or other approvals pursuant to Paragraph 43 above, Defendant, within 12 Months from commencement of operation of each Control Technology installed, upgraded, and/or operated under this Consent Decree, shall apply to permanently include the requirements and limitations enumerated in this Paragraph into (i) a federally-enforceable permit (other than a Title V operating permit) or request a site-specific amendment to the applicable SIP, such that the requirements and limitations enumerated in this Paragraph become and remain 'applicable requirements' as that term is defined in 40 C.F.R. Part 70.2 and these requirements shall survive the termination of this Consent Decree in accordance with Section XXVII (Termination) in the form of a federally-enforceable permit (other than a Title V operating permit) or a site-specific amendment to the applicable SIP or (ii) for the consolidated Title V construction and operating permit program in each of the states of Kansas (for Hickok) and Louisiana (for North Bend), into a consolidated permit, such that the requirements and limitations enumerated in this Paragraph become and remain 'applicable requirements' as that term is defined in 40 C.F.R. Part 70.2 and shall survive the termination of this Consent Decree in accordance with Section XXVII (Termination). The permit, approval or SIP amendment shall require compliance with the following requirements of this Consent Decree: any applicable (a) 7-day Rolling Average Emissions Limit for SO<sub>2</sub> or NO<sub>x</sub>, (b) 365-day Rolling Average Emissions Limit for SO<sub>2</sub> or NO<sub>x</sub>, (c) 365-day Rolling Sum Emissions Limit, (d) 30-day Rolling Average Sulfur Content Weight Percent, (e) 365-day Rolling Average Sulfur Content Weight Percent, (f) PM Control Technology, Emissions Limits, Best Management Practices, and Early Warning System Requirements required by Section VIII,

(g) Hickok NO<sub>x</sub> Cap, and (h) requirements specified in Paragraphs 20 (SO<sub>2</sub> Monitoring Requirements), 22 (Feedstock Sulfur Content Monitoring Requirements), 29 (NO<sub>x</sub> Monitoring Requirements), 36 (Prohibition of Use of Hickok Existing Tail Gas Boiler), and 37 (Prohibition On Use Of Flares at Hickok). Following submission of an application for any permit or approval, Defendant shall cooperate with the appropriate permitting authority by promptly submitting the information that such permitting authority seeks that is necessary for incorporating the preceding list of requirements into a permit following its receipt of the application for the permit. Defendant agrees not to contest the submittal to EPA of any such proposed SIP revision that incorporates the requirements listed in this Paragraph 44 of this Consent Decree, or EPA's approval of such submittal, or the incorporation of the requirements listed in this Paragraph 44 of this Consent Decree through these SIP requirements into Title V permits.

45. Unless Defendant has already complied with the requirement to include the provisions listed in Paragraph 44(ii) in a permit through its Title V permit, upon issuance of a permit, approval or SIP amendment pursuant to the terms of Paragraph 44 of this Section, or in conjunction with the issuance of such permit, approval or SIP amendment, Defendant shall file any applications necessary to incorporate the requirements of the permit into the Title V operating permit for the relevant Facility. Defendant shall not challenge the inclusion in any such permit of the following terms, to the extent expressly imposed by this Consent Decree: (a) 7-day Rolling Average Emissions Limit for SO<sub>2</sub> or NO<sub>x</sub>, (b) 365-day Rolling Average Emissions Limit for SO<sub>2</sub> or NO<sub>x</sub>, (c) 365-day Rolling Sum Emissions Limit, (d) 30-day Rolling Average Sulfur Content Weight Percent, (e) 365-day Rolling Average Sulfur Content Weight Percent, (f) PM Control Technology, Emissions Limits, Best Management Practices, and Early Warning

System Requirements required by Section VIII, (g) Hickok NO<sub>x</sub> Cap, and (h) requirements specified in Paragraphs 20 (SO<sub>2</sub> Monitoring Requirements), 22 (Feedstock Sulfur Content Monitoring Requirements), 29 (NO<sub>x</sub> Monitoring Requirements), and 36 (Prohibition on Use of Hickok Existing Tail Gas Boiler). Notwithstanding the foregoing, nothing in this Consent Decree is intended nor shall it be construed to require the establishment of Emissions Limits or limits on the sulfur content of carbon black feedstock other than those Emissions Limits, 30-day Rolling Average Sulfur Content Weight Percent, and/or 365-day Rolling Average Sulfur Content Weight Percent, expressly prescribed in this Consent Decree nor to preclude Defendant from challenging any more stringent Emissions Limits, 30-day Rolling Average Sulfur Content Weight Percent, and/or 365-day Rolling Average Sulfur Content Weight Percent, should they be proposed for or included in a Title V operating permit or any other permit necessary to implement any compliance obligations under this Decree.

46. When permits or SIP amendments are required, Defendant shall complete and submit applications for such permits or SIP amendments to the appropriate authorities to allow sufficient time for all legally required processing and review of the permit application or application for a SIP amendment, including requests for additional information by the permitting authorities that are necessary to process an application for a permit to satisfy the compliance obligations established by this Decree. Any failure by Defendant to submit a timely and complete permit application or application for a SIP amendment shall bar any use by Defendant of Section XV (Force Majeure), where a Force Majeure claim is based on permitting delays or delays associated with issuance of a SIP amendment.

47. Defendant shall provide EPA with a copy of each application for a permit to address or comply with any provision of this Consent Decree, as well as a copy of any permit

proposed as a result of such application, to allow for timely participation in any public comment opportunity.

48. Notwithstanding the reference to Title V permits in this Consent Decree, the enforcement of such permits shall be in accordance with their own terms and the Act and its implementing regulations. Such Title V permits shall not be enforceable under this Consent Decree, although any term or limit established by or under this Consent Decree shall be enforceable under this Consent Decree regardless of whether such term or limit has or will become part of a Title V permit, subject to the terms of Section XXVII (Termination).

49. Prior to Termination pursuant to the terms of Section XXVII (Termination), Defendant shall ensure that any enforceable requirements established under the Consent Decree are included in the applicable Title V permit including, but not limited to, any applicable (a) 7-day Rolling Average Emissions Limit for SO<sub>2</sub> or NO<sub>x</sub>, (b) 365-day Rolling Average Emissions Limit for SO<sub>2</sub> or NO<sub>x</sub>, (c) 365-day Rolling Sum Emissions Limit, (d) 30-day Rolling Average Sulfur Content Weight Percent, (e) 365-day Rolling Average Sulfur Content Weight Percent, (f) PM Control Technology, Emissions Limits, Best Management Practices, and Early Warning System Requirements required by Section VIII, (g) Hickok NO<sub>x</sub> Cap, and (h) requirements specified in Paragraphs 20 (SO<sub>2</sub> Monitoring Requirements), 22 (Feedstock Sulfur Content Monitoring Requirements), 29 (NO<sub>x</sub> Monitoring Requirements), and 36 (Prohibition on Use of Hickok Existing Tail Gas Boiler). For avoidance of doubt, the provisions of this CD in sections XV (Force Majeure) and XVI (Affirmative Defenses to Certain Stipulated Penalties) are applicable to compliance with this Consent Decree only and shall not be incorporated into any permits or approvals obtained in compliance with this Consent Decree.

## **XII. REVIEW AND APPROVAL OF SUBMITTALS**

50. Defendant shall submit each plan, report, or other submission required by this Consent Decree to EPA and, as applicable, to Plaintiff-State(s), whenever such a document is required to be submitted for review or approval pursuant to this Consent Decree. Whenever approval of such document is required pursuant to this Consent Decree, EPA, after consultation with Plaintiff-State(s), as applicable, shall in writing: a) approve the submission; b) approve the submission upon specified conditions; c) approve part of the submission and disapprove the remainder; or d) disapprove the submission, identifying the reasons for such disapproval.

51. If the submission is approved pursuant to Paragraph 50.a, Defendant shall take all actions required by the plan, report, or other document, in accordance with the schedules and requirements of the plan, report, or other document, as approved. If the submission is conditionally approved or approved only in part, pursuant to Paragraph 50.b or .c, Defendant shall, upon written direction from EPA after consultation with Plaintiff-States, take all actions required by the approved plan, report, or other item that EPA determines are technically severable from any disapproved portions, subject to Defendant's right to dispute only the specified conditions or the disapproved portions, under Section XVII of this Decree (Dispute Resolution)

52. If the submission is disapproved in whole or in part pursuant to Paragraph 50.c or .d, Defendant shall, within 45 Days or such other time as the Parties agree to in writing, correct all deficiencies and resubmit the plan, report, or other item, or disapproved portion thereof, for approval, in accordance with the preceding Paragraphs. If the resubmission is approved in whole or in part, Defendant shall proceed in accordance with the preceding Paragraph. Any stipulated penalties applicable to the original submission, as provided in Section XIV (Stipulated Penalties)

of this Decree, shall accrue during the 45 Day period or other specified period, but shall not be payable unless the resubmission is untimely or is disapproved in whole or in part; provided that, if the original submission was so deficient as to constitute a material breach of Defendant's obligations under this Decree, the stipulated penalties applicable to the original submission shall be due and payable notwithstanding any subsequent resubmission.

53. If a resubmitted plan, report, or other item, or portion thereof, is disapproved in whole or in part, EPA after consultation with Plaintiff-States may again require Defendant to correct any deficiencies, in accordance with the preceding Paragraphs, or may itself correct any deficiencies, subject to Defendant's right to invoke Dispute Resolution and the right of EPA and Plaintiff-States to seek stipulated penalties as provided in the preceding Paragraphs.

### **XIII. RECORDKEEPING AND REPORTING REQUIREMENTS**

54. Within 30 Days after the end of each half calendar year (i.e., by January 30th and July 30th) after the Effective Date, until termination of this Decree pursuant to Section XXVII (Termination), Defendant shall submit a semi-annual report to EPA and Plaintiff-States for the immediately preceding half calendar year period that shall contain the information described in this Paragraph 54 (a)-(j) for such immediately preceding half calendar year period:

- a. A description of the progress of the construction of the Control Technologies, CEMS, and PM Early Warning Systems required by this Consent Decree, including:
  - i. if construction is not underway, any available information concerning the construction schedule and the execution of major contracts;

- ii. if construction is underway, the estimated percent of installation as of the end of the reporting period, the current estimated construction completion date, and a brief description of completion of significant milestones during the reporting period;
  - iii. any information indicating that installation and commencement of operation may be delayed, including the nature and cause of the delay, and any steps taken by Defendant to mitigate such delay;
  - iv. once construction is complete, the dates the equipment was placed in service and/or commenced Continuous Operation and the dates of any testing that was performed during the period;
- b. All information necessary to demonstrate compliance with all applicable Emissions Limits, Hickok NO<sub>x</sub> Cap, 30-day Rolling Average Sulfur Content Weight Percent, 365-day Rolling Average Sulfur Content Weight Percent, and other provisions in Sections VI (SO<sub>2</sub> Control Technology, Emissions Limits, and Monitoring Requirements), VII (NO<sub>x</sub> Control Technology, Emissions Limits, and Monitoring Requirements), VIII (PM Control Technology, Emissions Limits, Best Management Practices, and Early Warning System Requirements), and Section IX (Prohibition on Use of Flares and Hickok Existing Tail Gas Boiler);
- c. All data collected for each Hickok Process System, from the time any 30-day Rolling Average Sulfur Content Weight Percent and/or 365-day Rolling Average Sulfur Content Weight Percent is exceeded until



compliance is achieved, and an explanation of any periods of downtime of any relevant equipment that prohibited the collection of such data;

- d. All CEMS data collected for each Process System, from the time any Emissions Limit and Hickok NO<sub>x</sub> Cap in Sections VI (SO<sub>2</sub> Control Technology, Emissions Limits, and Monitoring Requirements) and VII (NO<sub>x</sub> Control Technology, Emissions Limits, and Monitoring Requirements) is exceeded until compliance is achieved, and an explanation of any periods of downtime of such CEMS;
- e. A copy of the protocol for any PM stack tests performed in accordance with the requirements of Paragraph 32;
- f. All PM Early Warning System data collected, from the time a PM Early Warning System alarm is triggered until the PM Early Warning System data have returned to below the action levels triggering an alarm condition, and an explanation of any periods of PM Early Warning System downtime;
- g. A description of any potential violation of the requirements of this Consent Decree, including any exceedance resulting from Malfunctions, any exceedance of an Emissions Limit, any exceedance of the Hickok NO<sub>x</sub> Cap, any exceedance of a 30-day Rolling Average Sulfur Content Weight Percent or 365-day Rolling Average Sulfur Content Weight Percent, or any failure to install, commence operation or Continuously Operate any Control Technology or any PM Early Warning System, which includes:
  - i. the date and duration of, and the quantity of any emissions related

- to, the potential violation;
- ii. a full explanation of the primary cause and any other significant contributing cause(s) of the potential violation;
- iii. an analysis of all reasonable interim and long-term remedial steps or corrective actions, including all design, operation, and maintenance changes consistent with good engineering practices, if any, that could be taken to reduce or eliminate the probability of recurrence of such potential violation, and, if not already completed, a schedule for its (their) implementation, or, if Defendant concludes that remedial steps or corrective actions should not be conducted, the basis for that conclusion;
- h. If no violations occurred during a reporting period, a statement that no violations occurred;
- i. A description of the status of any permit applications and any proposed SIP revisions required under this Consent Decree; and
- j. A summary of all actions undertaken and Project Dollars expended during the reporting period, as well as any cumulative Project Dollars expended, and the estimated environmental benefits achieved to date in satisfaction of the requirements of Section V (Environmental Mitigation) and Appendix A.

55. In any periodic report submitted pursuant to this Section, Defendant may incorporate by reference information submitted under its Title V permitting requirements, provided that Defendant attaches the Title V Permit report (or the pertinent portions of such

report) and provides a specific reference to the provisions of the Title V permit report that are responsive to the information required in the period report.

56. If Defendant violates, or has reason to believe that it may violate, any requirement of this Consent Decree, including any exceedance resulting from Malfunctions, any exceedance of an Emissions Limit, any exceedance of the Hickok NO<sub>x</sub> Cap, any exceedance of a 30-day Rolling Average Sulfur Content Weight Percent or 365-day Rolling Average Sulfur Content Weight Percent, any failure to install, commence operation or Continuously Operate any Control Technology or any PM Early Warning System, or any event that triggers a PM Early Warning System alarm, Defendant shall notify EPA and Plaintiff-States of such event, and its likely duration, in writing, within 30 Business Days of the Day Defendant first becomes aware that it has violated or may violate the Decree, with an explanation of the likely cause of the event, remedial steps or corrective action taken, or to be taken, including all design, operation, and maintenance changes consistent with good engineering practices, if any, to reduce or eliminate the probability of recurrence of such violation. If, at any time, the provisions of this Consent Decree are included in Title V Permits, consistent with the requirements for such inclusion in this Consent Decree, then the deviation reports required under applicable Title V regulations shall be deemed to satisfy all the requirements of this Paragraph. Nothing in this Paragraph or the following Paragraph relieves Defendant of its obligation to provide the notice required by Section XV (Force Majeure) if Defendant contends a Force Majeure event occurred.

57. Whenever any violation of this Consent Decree, or of any applicable permits required under this Consent Decree, or any other event affecting Defendant's performance under this Decree may pose an immediate threat to the public health or welfare or the environment, Defendant shall notify EPA and the applicable Plaintiff-State, orally or by electronic or facsimile

transmission as soon as possible, but no later than seven Days after Defendant first knew, or should have known, of the violation or event. This procedure is in addition to the requirements set forth in the preceding Paragraph.

58. Within 60 Days following the completion of each Environmental Mitigation Project required under this Consent Decree, Defendant shall submit to EPA and the applicable Plaintiff-State a report that documents the date that the Environmental Mitigation Project was completed, the results from implementing the Environmental Mitigation Project, including the emission reductions or other environmental benefits achieved, and the Project Dollars expended by Defendant in implementing the Environmental Mitigation Project.

59. All reports shall be submitted as set forth in Section XXI (Notices). All data shall be reported using the number of significant digits in which the pertinent standard or limit is expressed.

60. Each report submitted by Defendant under this Section shall be signed by an official of the submitting party and include the following certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

This certification requirement does not apply to emergency or similar notifications where compliance would be impractical.

61. The reporting requirements of this Consent Decree do not relieve Defendant of any reporting obligations required by the Clean Air Act or implementing regulations, or by any other federal, state, or local law, regulation, permit, or other requirement.

62. Any information provided pursuant to this Consent Decree may be used by the Plaintiffs in any proceeding to enforce the provisions of this Consent Decree and as otherwise permitted by law.

63. Defendant may also assert that information required to be provided under this Section is protected as “Confidential Business Information” (“CBI”) under 40 C.F.R. Part 2 or any applicable state laws. If the Defendant elects to do so, it shall designate any such information as CBI subject to 40 C.F.R. Part 2 or the applicable state law, and follow the requirements of 40 C.F.R. Part 2 or the applicable state law for the protection of such information, including by segregating the CBI material from the rest of the report, and substantiating each element of each CBI claim in the report. Any information to be provided to LDEQ that Defendant wishes to protect as CBI shall follow the law and procedures set forth in the applicable provisions of La. R.S. 30:2030, La. R.S. 30:2074.D, and LA ADMIN. CODE tit. 33, Pt. I, Chapter 5. No monitoring data or other data evidencing the amount or content of emissions from any Facility shall be considered as CBI or subject to any privilege, provided, however, that nothing within this provision prohibits Defendant from invoking Paragraph 96 and the confidential business determination process specified therein, including over feedstock information. Plaintiffs reserve all rights to dispute such a claim.

#### **XIV. STIPULATED PENALTIES**

64. Defendant shall be liable for stipulated penalties to the United States for

violations of this Consent Decree, and to the United States and the applicable Plaintiff-States for

violations of this Consent Decree with respect to North Bend and Hickok, as specified in the table below, unless excused under Section XV (Force Majeure) or Defendant establishes a defense under Section XVI (Affirmative Defense to Certain Stipulated Penalties). Violation of any Emissions Limit, 30-day Rolling Average Sulfur Content Weight Percent, or 365-day Rolling Average Sulfur Content Weight Percent is a violation on every Day on which the average or sum is based and each subsequent Day of violation of such Emissions Limit, 30-day Rolling Average Sulfur Content Weight Percent, or 365-day Rolling Average Sulfur Content Weight Percent is subject to the corresponding penalty per Day as specified in the table below, provided that, when a violation of an Emissions Limit (for the same pollutant and from the same source), 30-day Rolling Average Sulfur Content Weight Percent, or 365-day Rolling Average Sulfur Content Weight Percent recurs within periods of less than seven Days, Defendant shall not pay a second or multiple daily stipulated penalty for any Day of recurrence for which a stipulated penalty is already payable. Stipulated penalties may only be assessed once for a given Day within any averaging or summation period for violation of any particular Emissions Limit, Hickok NO<sub>x</sub> Cap, 30-day Rolling Average Sulfur Content Weight Percent, or 365-day Rolling Average Sulfur Content Weight Percent.

<b>Consent Decree Violation</b>	<b>Stipulated Penalty</b>
a. Failure to pay the civil penalty as specified in Section IV (Civil Penalty)	\$5,000 per Day
b. Failure to comply with any applicable Emissions Limit, Hickok NO <sub>x</sub> Cap, 30-day Rolling Average Sulfur Content Weight Percent, or 365-day Rolling Average Sulfur Content Weight Percent, where the violation is less than 5% in excess of the limits set forth in this Consent Decree	\$1,000 per Day per violation

<b>Consent Decree Violation</b>	<b>Stipulated Penalty</b>
c. Failure to comply with any applicable Emissions Limit, Hickok NO <sub>x</sub> Cap, 30-day Rolling Average Sulfur Content Weight Percent, or 365-day Rolling Average Sulfur Content Weight Percent, where the violation is equal to or greater than 5% but less than 10% in excess of the limits set forth in this Consent Decree	\$2,000 per Day per violation
d. Failure to comply with any applicable Emissions Limit, Hickok NO <sub>x</sub> Cap, 30-day Rolling Average Sulfur Content Weight Percent, or 365-day Rolling Average Sulfur Content Weight Percent, where the violation is greater than 10% in excess of the limits set forth in this Consent Decree	\$3,000 per Day per violation
e. Failure to install, commence operation, or Continuously Operate a Control Technology required under this Consent Decree	\$5,000 per Day per violation during the first 30 Days, \$10,000 per Day per violation for the next 30 Days, and \$37,500 per Day per violation thereafter
f. Failure to install, commence operation, or Continuously Operate a PM Early Warning System as required under this Consent Decree	\$1,000 per Day per violation
g. Failure to install or operate a CEMS as required in this Consent Decree	\$1,000 per Day per violation
h. Failure to apply for any permit required by Section XI (Permits)	\$1,000 per Day per violation
i. Failure to timely submit, modify, or implement, as approved, the reports, plans, studies, analyses, protocols, or other submittals required in this Consent Decree	\$750 per Day per violation during the first ten Days, \$1,000 per Day per violation thereafter
j. Failure to timely submit, modify, or implement, as approved, a report, plan, study, analysis, protocol, or other submittal required with respect to Environmental Mitigation Projects prescribed in Section V (Environmental Mitigation) or Appendix A	\$750 per Day per violation during the first ten Days, \$1,000 per Day per violation thereafter



<b>Consent Decree Violation</b>	<b>Stipulated Penalty</b>
k. Any other violation of this Consent Decree	\$1,000 per Day per violation

65. Subject to the provisions of Paragraph 64 above, stipulated penalties under this Section shall begin to accrue on the Day after performance is due or on the Day a violation occurs, whichever is applicable, and shall continue to accrue until performance is satisfactorily completed or until the violation ceases. Nothing in this Consent Decree shall prevent the simultaneous accrual of separate stipulated penalties for separate violations of this Consent Decree. The United States or Plaintiff-States, or any of the foregoing, may seek stipulated penalties under this Section with respect to violations involving North Bend (LDEQ only) and Hickok (KDHE only). Where the United States and a Plaintiff-State seek stipulated penalties for the same violation of this Consent Decree, Defendant shall pay 50% to the United States and 50% to the Plaintiff-State. The Plaintiff making a demand for payment of a stipulated penalty shall simultaneously send a copy of the demand to the other Plaintiffs.

66. Defendant shall pay any stipulated penalty within 30 Days of receiving the United States' and/or Plaintiff-States' written demand, unless Defendant elects within 20 Days of receipt of written demand to dispute the imposition or accrual of stipulated penalties in accordance with the provisions in Section XVII (Dispute Resolution) of this Consent Decree.

67. EPA and Plaintiff-States may, in the unreviewable exercise of their collective or individual discretion, reduce or waive their portion of stipulated penalties otherwise due to either the United States or Plaintiff-States under this Consent Decree.

68. Stipulated penalties shall continue to accrue as provided in this Section during any dispute, with interest on accrued stipulated penalties payable and calculated at the rate

established by the Secretary of the Treasury, pursuant to 28 U.S.C. § 1961, but need not be paid until the following:

- a. If the dispute is resolved by agreement between the Parties or by a decision of the United States and/or Plaintiff-States that is not appealed to the Court, Defendant shall pay accrued penalties determined to be owing, together with interest accruing from the 31st Day after the written demand in Paragraph 66, within 30 Days of the effective date of the agreement or the receipt of EPA's and/or Plaintiff-States' decision or order.
- b. If the dispute is appealed to the Court and the United States and/or Plaintiff-States are the prevailing party, in whole or in part, as may be determined by the Court, Defendant shall pay all accrued penalties determined by the Court to be owing, together with interest accruing from the 31st Day after the written demand in Paragraph 66, within 60 Days of receiving the Court's decision or order, except as provided in subparagraph c, below.
- c. If any Party appeals the District Court's decision, Defendant shall pay all accrued penalties determined to be owing, together with interest accruing from the 31st Day after the written demand in Paragraph 66, within 15 Days of receiving the final appellate court decision.

69. Defendant shall pay stipulated penalties owing to the United States and/or Plaintiff-States in the manner set forth and with the confirmation notices to the persons specified in Section IV (Civil Penalty), except that the transmittal letter shall state that the payment is for stipulated penalties and shall state for which violation(s) the penalties are being paid.

70. If Defendant fails to pay stipulated penalties according to the terms of this Consent Decree, Defendant shall be liable for interest on such penalties, as provided for in 28 U.S.C. § 1961, accruing as of the date payment became due. Nothing in this Paragraph shall be construed to limit the United States and/or Plaintiff-States from securing any remedy otherwise provided by law for Defendant's failure to pay any stipulated penalties.

71. The stipulated penalties provided for in this Consent Decree shall be in addition to any other rights, remedies, or sanctions available to the United States and/or Plaintiff-States for Defendant's violation of this Consent Decree or applicable law, except that for any violation of this Consent Decree that is also a violation of any applicable statute or regulation, Defendant shall be allowed a credit, dollar for dollar, for any stipulated penalties paid, against any statutory penalties imposed for such violation, including penalties resulting from enforcement pursuant to Paragraphs 64 and 70.

## **XV. FORCE MAJEURE**

72. "Force Majeure," for purposes of this Consent Decree, is defined as any event arising from causes beyond the control of Defendant, its Contractors, or an entity controlled by Defendant that causes a delay or impediment to performance in complying with any obligation under this Consent Decree despite Defendant's best efforts to fulfill the obligation. The requirement that Defendant exercises best efforts to fulfill the obligation includes using best efforts to anticipate any potential Force Majeure event and best efforts to address the effects of any such event (a) as it is occurring and (b) after it has occurred to prevent or minimize any resulting delay and/or violation and/or emissions during such event to the greatest extent possible. Force Majeure does not include Defendant's financial inability to perform any obligation under this Consent Decree. Unanticipated or increased costs or expenses associated

with the performance of Defendant's obligations under this Consent Decree shall not constitute circumstances beyond Defendant's control, nor serve as the basis for an extension of time under this Section, and shall not constitute an event of Force Majeure.

73. If any event occurs or has occurred that may delay or prevent compliance with the performance of any obligation under this Consent Decree, as to which Defendant intends to assert a claim as an event of Force Majeure, Defendant shall provide notice orally or by electronic or facsimile transmission to the representatives of EPA and Plaintiff-States designated to receive notice pursuant to Section XXI (Notices) as soon as practicable but no later than seven Business Days following the date Defendant first knew that the claimed Force Majeure event may cause such delay and give rise to a claim of Force Majeure. Defendant shall provide written notice of the event as soon as practicable, but in no event later than 21 Business Days following the date when Defendant first knew that the event might cause such delay. The written notice shall reference this Paragraph of the Consent Decree and explain and describe the reasons for the delay, the anticipated duration of the delay, all actions taken or to be taken to prevent or minimize the delay, a schedule for implementation of any measures to be taken to prevent or mitigate the delay or the effect of the delay, and Defendant's rationale for attributing such delay to a Force Majeure event if it intends to assert such a claim. Defendant shall include with any written notice all available documentation supporting the claim that the delay was attributable to a Force Majeure event. Defendant shall be deemed to know of any circumstance of which Defendant's Contractors, or any entity controlled by it, knew or should have known.

74. Failure by Defendant to comply with the notice requirements of Paragraph 73 renders this Section voidable by EPA, as to the specific event for which Defendant has failed to

comply with such notice requirement. If so voided, it shall be of no effect as to the particular event involved.

75. If EPA, after consultation with Plaintiff-States, agrees that the delay or anticipated delay is attributable to a Force Majeure event, the Parties may reach agreement and stipulate in writing to an extension of the required deadline(s) for all requirement(s) affected by the Force Majeure event for a period equivalent to the delay actually caused by the Force Majeure event, or such other period as may be appropriate in light of the circumstances. If such stipulation results in a material change to the terms of the Consent Decree, the stipulation shall be filed as a modification to the Consent Decree pursuant to Section XXIV (Modification). An extension of the time for performance of the obligations affected by the Force Majeure event shall not, of itself, extend the time for performance of any other obligation. If the Parties do not reach agreement on the appropriate extension of any deadlines affected by a Force Majeure event, EPA will notify Defendant in writing of the length of the extension, if any, for performance of the obligations affected by the Force Majeure event. Defendant shall comply with the extended deadlines specified in the notice from EPA, subject to the provisions of Section XVII (Dispute Resolution).

76. If EPA, after consultation with Plaintiff-States, does not agree that the delay or anticipated delay has been or will be caused by a Force Majeure event, EPA will notify Defendant in writing of its decision.

77. If Defendant elects to invoke the formal dispute resolution procedures set forth in Section XVII (Dispute Resolution), it shall do so no later than 45 Days after receipt of EPA's notice pursuant to Paragraph 75 or Paragraph 76, whichever applies, and shall first comply with the provisions for informal dispute resolution contained in Section XVII before proceeding to

formal dispute resolution. In any such proceeding in accordance with formal dispute resolution procedures, Defendant shall have the burden of demonstrating that the delay or anticipated delay has been or will be caused by a Force Majeure event, that the duration of the delay or the extension sought was or will be warranted under the circumstances, that best efforts were exercised to avoid and mitigate the effects of the delay, and that Defendant complied with the requirements of Paragraphs 72-73, above. If Defendant carries this burden, the delay at issue shall be deemed not to be a violation by Defendant of the affected obligation of this Consent Decree identified to EPA and the Court.

78. This Court shall not draw any inferences nor establish any presumptions adverse to any Party as a result of Defendant delivering a notice of Force Majeure or the Parties' inability to reach agreement.

#### **XVI. AFFIRMATIVE DEFENSES TO CERTAIN STIPULATED PENALTIES**

79. If any of Defendant's Process Systems exceeds a 3-hour Average Emissions Limit, or a 7-day Rolling Average Emissions Limit due to a Malfunction, Defendant, bearing the burden of proof by a preponderance of the evidence, has an affirmative defense to a claim for stipulated penalties under this Consent Decree, if Defendant complies with the notice and reporting requirements of Paragraph 80 of this Section, and demonstrates all of the following:

- a. The excess emissions were caused by a sudden, unavoidable breakdown of technology, beyond Defendant's control;
- b. The excess emissions did not stem from any activity or event that was foreseeable and avoidable, nor could have been avoided by operation and maintenance practices in accordance with manufacturers' specifications and good engineering and maintenance practices;

- c. The air pollution control equipment and processes were maintained and operated in a manner consistent with good practice for minimizing emissions;
- d. Repairs were made as expeditiously as practical when Defendant knew or should have known that the applicable 3-hour Average Emissions Limit, or a 7-day Rolling Average Emissions Limit was being or would be exceeded;
- e. Defendant took measures to limit the amount and duration of the excess emissions (including any bypass) in a manner consistent with good practice for minimizing emissions;
- f. All practical steps were taken to minimize the impact of the excess emissions on ambient air quality;
- g. Relevant emission monitoring systems were kept in operation to the extent practical;
- h. Defendant's actions in response to the excess emissions were documented by properly signed or otherwise validated contemporaneous operating logs, if applicable, or other relevant evidence;
- i. The excess emissions were not part of a recurring pattern indicative of inadequate design, operation, or maintenance; and
- j. Defendant properly and promptly notified Plaintiffs as required by this Consent Decree.

80. To assert an affirmative defense for Malfunction under Paragraph 79, Defendant shall provide notice to the Plaintiffs in writing of Defendant's intent to assert an affirmative

defense in Defendant's semi-annual progress reports required by Paragraph 54. The notice shall contain:

- a. The identity of each stack or other emission point where the excess emissions occurred;
- b. The magnitude of the excess emissions expressed in the units of the applicable Emissions Limits and the operating data and calculations used in determining the magnitude of the excess emissions;
- c. The time and duration or expected duration of the excess emissions;
- d. The identity of the equipment from which the excess emissions emanated;
- e. The nature and cause of the emissions;
- f. The steps taken to remedy the Malfunction and the steps taken or planned to prevent the recurrence of the Malfunctions;
- g. The steps that were or are being taken to limit the excess emissions; and
- h. If Defendant's permit contains procedures governing source operation during periods of Malfunction and the excess emissions resulted from Malfunction, a list of the steps taken to comply with the permit procedures.

81. The affirmative defense provided herein is only an affirmative defense to stipulated penalties for violations of this Consent Decree, and not a defense to any civil or administrative action for injunctive relief. A Malfunction shall not constitute a Force Majeure Event unless the Malfunction also meets the definition of a Force Majeure Event, as provided in Section XV (Force Majeure).



## **XVII. DISPUTE RESOLUTION**

82. The dispute resolution procedures of this Section shall be the exclusive mechanism to resolve disputes arising under or with respect to this Consent Decree, including, but not limited to, Section XIV (Stipulated Penalties) and Section XV (Force Majeure). Defendant's failure to seek resolution of a dispute under this Section shall preclude Defendant from raising any such issue as a defense to an action to enforce any obligation of Defendant arising under this Decree.

83. Any dispute subject to Dispute Resolution under this Consent Decree shall first be the subject of informal negotiations. The dispute shall be considered to have arisen when Defendant sends the United States, and the applicable Plaintiff-State, a written notice of Dispute. Such notice of dispute shall clearly describe the nature of the dispute and shall state Defendant's position with regard to such dispute. The Parties shall expeditiously schedule a meeting to discuss the dispute informally not later than 10 days after the receipt of such notice. The period of informal negotiations shall not exceed 20 Days from the date of sending the notice of dispute, unless that period is modified by written agreement. If the Parties cannot resolve a dispute by informal negotiations, then the position advanced by the United States, after consultation with the applicable Plaintiff-State, shall be considered binding unless, within 20 Days after the conclusion of the informal negotiation period, Defendant invokes formal dispute resolution procedures as set forth below.

84. Defendant may invoke formal dispute resolution procedures, within the time period provided in the preceding Paragraph, by serving on the United States and the applicable Plaintiff-State, in accordance with Section XXI (Notices), a written statement of position regarding the matter in dispute. The statement of position shall include, but may not necessarily

be limited to, any factual data, analysis, or opinion supporting Defendant's position and any supporting documentation relied upon by Defendant.

85. The United States, after consultation with the applicable Plaintiff-State, shall serve its statement of position within 45 Days of receipt of Defendant's statement of position. The United States' statement of position shall include, but may not necessarily be limited to, any factual data, analysis, or opinion supporting that position and any supporting documentation relied upon by the United States. The statement of position of the United States shall be binding on Defendant, unless Defendant files a motion for judicial review of the dispute in accordance with the following Paragraph.

86. Defendant may seek judicial review of the dispute by filing with the Court, and serving on the United States and the applicable Plaintiff-State, in accordance with Section XXI (Notices), a motion requesting judicial resolution of the dispute. The motion shall contain a written statement of Defendant's position on the matter in dispute, including any supporting factual data, analysis, opinion, or documentation, and shall set forth the relief requested and any schedule within which the dispute must be resolved for orderly implementation of the Consent Decree. The United States, after consultation with the applicable Plaintiff-State, shall file its response to Defendant's motion within 21 Days of the date of service of the motion, which shall be served on Defendant in accordance with Section XXI (Notices) and the electronic case filing (ECF) requirements of the Court. Defendant may file a reply within 7 Days of the date of service of the response in accordance with Section XXI (Notices) and the ECF filing requirements of the Court.

87. Except as otherwise provided in this Consent Decree, the Court shall decide all disputes pursuant to applicable principles of law. The disputing Parties shall state their

respective positions as to the applicable standard of law for resolving the particular dispute in the Parties' initial filings with the Court under Paragraphs 85 and 86. Except as otherwise provided in this Consent Decree, in any dispute brought under this Section XVII (Dispute Resolution), Defendant shall bear the burden of demonstrating that its position complies with this Consent Decree.

88. The time periods set out in this Section may be shortened or lengthened by a joint motion among the Parties or upon motion to the Court by one of the Parties to the dispute, explaining the basis for seeking such a scheduling modification.

89. The invocation of dispute resolution procedures under this Section shall not, by itself, extend, postpone, or affect in any way any obligation of Defendant under this Consent Decree, unless and until final resolution of the dispute so provides. Stipulated penalties with respect to the disputed matter shall continue to accrue from the first Day of noncompliance, but payment shall be stayed pending resolution of the dispute and in accordance with any extension or modification of the schedule for completion of work as provided in Paragraph 75. If Defendant does not prevail on the disputed issue, stipulated penalties shall be assessed and paid as provided in Section XIV (Stipulated Penalties).

90. As part of the resolution of any dispute under this Section, in appropriate circumstances the disputing Parties may agree, in writing, or this Court may order, an extension or modification of the schedule for the completion of the work required under this Consent Decree. Defendant shall be liable for stipulated penalties pursuant to Section XIV (Stipulated Penalties) for its failure thereafter to complete the work in accordance with the extended or modified schedule, provided that Defendant shall not be precluded from asserting that an event

of Force Majeure has caused or may cause a delay in complying with the extended or modified schedule.

91. Issuance, renewal, modification, denial or revocation of a permit and issuance of orders or other actions by state agencies are not themselves subject to dispute resolution under this Consent Decree. However, subject to Section XI (Permits) and XV (Force Majeure), this Paragraph in no way limits Defendant's right to assert in a dispute under this Decree that a State's action or inaction (on a permit application or any other request by Defendant) prevented Defendant from complying with an obligation under this Decree.

#### **XVIII. INFORMATION COLLECTION AND RETENTION**

92. The United States, and its authorized representatives, including attorneys, contractors, and consultants, shall have the right of entry into any Facility covered by this Consent Decree, and LDEQ (as to North Bend only) and KDHE (as to Hickok only) and its representatives, including attorneys, contractors, and consultants, shall have the right of entry, at all reasonable times, upon presentation of credentials, to:

- a. monitor the progress of activities required under this Consent Decree;
- b. verify any data or information submitted to the United States or LDEQ or KDHE in accordance with the terms of this Consent Decree;
- c. obtain samples and, upon request, splits of any samples taken by Defendant or its representatives, Contractors, or consultants;
- d. obtain copies of documents, including photographs and similar data, relating to activities required under this Consent Decree; and
- e. assess Defendant's compliance with this Consent Decree.

93. Until five years after the complete termination of this Consent Decree, Defendant shall retain in electronic form, and shall instruct its Contractors and agents to preserve in electronic form, all non-identical copies of all documents and records in their or their Contractors' or agents' possession or control, or that come into their or their Contractors' or agents' possession or control, and that relate to Defendant's performance of its obligations under this Consent Decree. This information-retention requirement shall apply regardless of any contrary corporate or institutional policies or procedures. At any time during this information-retention period, upon request by the United States or the applicable Plaintiff-State, Defendant shall provide copies of any documents, records, or other information required to be maintained under this Paragraph.

94. At the conclusion of the information-retention period provided in Paragraph 93 above, Defendant shall notify the United States and the applicable Plaintiff-State at least 90 Days prior to the destruction of any documents, records, or other information subject to the requirements of Paragraph 93 and, upon request by the United States or the applicable Plaintiff-State, Defendant shall deliver any such documents, records, or other information to EPA or the applicable Plaintiff-State.

95. Defendant may assert that documents, records, or other information requested by the United States or Plaintiff-States under this Decree are privileged under the attorney-client privilege or any other privilege recognized by federal law. If Defendant asserts such a privilege, it shall provide the following: (1) the title of the document, record, or information; (2) the date of the document, record, or information; (3) the name and title of each author of the document, record, or information; (4) the name and title of each addressee and recipient; (5) a description of the subject of the document, record, or information; and (6) the basis of the privilege asserted by

Defendant. However, no documents, records, or other information created or generated pursuant to the requirements of this Consent Decree shall be withheld on grounds of privilege.

96. All information and documents submitted by Defendant pursuant to this Consent Decree shall be subject to any requests under applicable law providing public disclosure of documents unless (a) the information and documents are subject to legal privileges or protection or (b) Defendant claims and substantiates in accordance with 40 C.F.R. Part 2 and any applicable State law that the information and documents contain confidential business information.

97. This Consent Decree in no way limits or affects any right of entry and inspection, or any right to obtain information, held by the United States or the applicable Plaintiff-State pursuant to applicable federal or state laws, regulations, or permits, nor does it limit or affect any duty or obligation of Defendant to maintain documents, records, or other information imposed by applicable federal or state laws, regulations, or permits.

#### **XIX. EFFECT OF SETTLEMENT / RESERVATION OF RIGHTS**

98. Entry of this Consent Decree shall resolve all civil claims of the United States and Plaintiff-States arising under Parts C or D of Subchapter I of the Clean Air Act, 42 U.S.C. §§ 7470 to 7492, the regulations promulgated thereunder at 40 C.F.R. §§ 52.21, 51.165 and 51.166, the portions of applicable SIPs and related rules adopted pursuant to 40 C.F.R. §§ 51.165 and 51.166, and under Subchapter V of the Clean Air Act, §§ 7661 to 7661f and the regulations promulgated thereunder, with respect to SO<sub>2</sub>, NO<sub>x</sub> and PM and any permit condition that incorporates one or more of the foregoing regulatory provisions, that arose from modifications of the Process Systems covered by this Consent Decree that commenced prior to the Date of Lodging of this Consent Decree, including without limitation the allegations of noncompliance set forth in the Complaint and in the Notices of Violation issued by EPA to Defendant.

99. Notwithstanding the resolution of liability in Paragraph 98, nothing in this Consent Decree precludes the United States and/or Plaintiff-States from seeking from Defendant injunctive relief, penalties, or other appropriate relief for violations by Defendant of the regulatory requirements identified in Paragraph 98 resulting from (1) construction or modification that commenced prior to the Date of Lodging of the Consent Decree, if the resulting violations do not relate to the Process Systems covered by this Consent Decree or do not relate to NO<sub>x</sub>, SO<sub>2</sub> or PM or (2) any construction or modification that commences after the Date of Lodging of the Consent Decree. Nothing in this Consent Decree limits or restricts any defenses otherwise available to Defendant in responding to any enforcement action addressed by this Paragraph.

100. The United States and Plaintiff-States reserve all legal and equitable remedies available to enforce the provisions of this Consent Decree. This Consent Decree shall not be construed to limit the rights of the United States or Plaintiff-States to obtain penalties or injunctive relief under the Act or implementing regulations, or under other federal or state laws, regulations, or permit conditions, except as expressly specified in Paragraph 98. The United States and Plaintiff-States further reserve all legal and equitable remedies to address any imminent and substantial endangerment to the public health or welfare or the environment arising at, or posed by, one or more of Defendant's Facilities, whether related to the violations addressed in this Consent Decree or otherwise.

101. In any subsequent administrative or judicial proceeding initiated by the United States or Plaintiff-States for injunctive relief, civil penalties, or other appropriate relief relating to the Facilities or to Defendant's violations, Defendant shall not assert, and may not maintain, any defense or claim based upon the principles of waiver, res judicata, collateral estoppel, issue

preclusion, claim preclusion, claim-splitting, or other defenses based upon any contention that the claims raised by the United States or Plaintiff-States in the subsequent proceeding were or should have been brought in the instant case, except with respect to claims that have been specifically resolved pursuant to Paragraph 98 of this Section.

102. This Consent Decree is not a permit, or a modification of any permit, under any federal, state, or local laws or regulations. Defendant is responsible for achieving and maintaining compliance with all applicable federal, state, and local laws, regulations, and permits; and Defendant's compliance with this Consent Decree shall be no defense to any action commenced pursuant to any such laws, regulations, or permits, except as set forth herein. The United States and Plaintiff-States do not, by their consent to the entry of this Consent Decree, warrant or aver in any manner that Defendant's compliance with any aspect of this Consent Decree will result in compliance with provisions of the Act, 42 U.S.C. § 7401 et seq., or with any other provisions of federal, state, or local laws, regulations, or permits.

103. This Consent Decree does not limit or affect the rights of Defendant or of the United States or Plaintiff-States against any third parties not party to this Consent Decree, nor does it limit the rights of third parties not party to this Consent Decree, against Defendant, except as otherwise provided by law.

104. This Consent Decree shall not be construed to create rights in, or grant any cause of action to, any third party not party to this Consent Decree.

## **XX. COSTS**

105. The Parties shall bear their own costs of this action, including attorneys' fees, except that the United States and Plaintiff-States shall be entitled to collect the costs (including



attorneys' fees) incurred in any action necessary to collect any portion of the civil penalty or any stipulated penalties due but not paid by Defendant.

## **XXI. NOTICES**

106. Unless otherwise provided herein, whenever notifications, submissions, or communications are required by the Consent Decree, they shall be made in writing and addressed as follows:

To EPA:

If by US Mail  
Director, Air Enforcement Division  
U.S. Environmental Protection Agency  
MC 2242A  
1200 Pennsylvania Ave. NW  
Washington, D.C. 20460

If by Overnight Mail  
Director, Air Enforcement Division  
U.S. Environmental Protection Agency  
MC 2242A, Room 1117 WJCS  
1200 Pennsylvania Ave. NW  
Washington, D.C. 20004

And

Stacey B. Dwyer, P.E.  
Acting Director  
Compliance Assurance and  
Enforcement Division  
U.S. EPA, Region 6  
1445 Ross Ave.  
Dallas, TX 75202-2733

And

Lisa Gotto  
U.S. Environmental Protection Agency, Region 7  
Air Permitting and Compliance Branch  
Mail Code: AWMD/APCO  
11201 Renner Blvd.

Lenexa, Kansas 66219  
Gotto.Lisa@epa.gov

Chief  
U.S. Environmental Protection Agency, Region 7  
Air Permitting and Compliance Branch  
Mail Code: AWMD/APCO  
11201 Renner Blvd.  
Lenexa, Kansas 66219

Alex Chen, Esq.  
U.S. Environmental Protection Agency, Region 7  
Office of Regional Counsel  
11201 Renner Blvd.  
Lenexa, Kansas 66219  
Chen.Alex@epa.gov

To the United States (in addition to the EPA addresses above):

If by US Mail  
Chief, Environmental Enforcement Section  
Environment and Natural Resources Division  
U.S. Department of Justice  
Box 7611 Ben Franklin Station  
Washington, D.C. 20044-7611  
Re: DOJ No. 90-5-2-1-10943

If by Overnight Mail  
Chief, Environmental Enforcement Section  
Environment and Natural Resources Division  
U.S. Department of Justice  
ENRD Mailroom, Room 2121  
601 D Street, NW, Washington, DC 20004  
Re: DOJ No. 90-5-2-1-10943

For all submissions referring to the North Bend Facility, to LDEQ:

Brandon B. Williams, LA BAR Roll# 27139  
Attorney  
Office of the Secretary, Legal Division  
Louisiana Department of Environmental Quality  
P.O. Box 4302  
Baton Rouge, Louisiana 70821-4302

For overnight mail: 602 N. Fifth Street Baton Rouge, Louisiana 70802.

And

Celena Cage  
Enforcement Administrator  
Office of Environmental Compliance  
Louisiana Department Environmental Quality  
P.O. Box 4312  
Baton Rouge, Louisiana 70821-4312

For overnight mail: 602 N. Fifth Street Baton Rouge, Louisiana 70802.

For all submissions referring to the Hickok Facility, to KDHE:

Javier Ahumada  
Section Chief  
Compliance and Enforcement  
Kansas Department of Health and Environment  
1000 SW Jackson, Suite 310  
Topeka, Kansas 66612-1366  
Javier.ahumada@ks.gov

And

Kate Gleeson  
Attorney  
Kansas Department of Health and Environment  
1000 SW Jackson, Suite 560  
Topeka, Kansas 66612-1266  
Kate.gleeson@ks.gov

To Defendant:

Columbian Chemicals Company  
1800 West Oak Commons Court  
Marietta, Georgia 30062-2253  
Attn: General Counsel

David Buente  
Sidley Austin LLP  
1501 K Street, NW  
Washington, DC 20005  
dbuente@sidley.com

Ben Tannen

Sidley Austin LLP  
1501 K Street, NW  
Washington, DC 20005  
btannen@sidley.com

107. Any Party may, by written notice to the other Parties, change its designated notice recipient or notice address or means of transmittal provided in this Section XXI.

108. All notifications, communications, or submissions made pursuant to this Section shall be sent as follows: (a) by overnight mail or overnight delivery service to EPA, and by overnight mail to the United States (in addition to EPA, as set forth in Paragraph 106), with a copy by electronic mail if practicable; (b) by electronic mail to all Plaintiffs, if practicable, but if not practicable, then by overnight mail or overnight delivery service to Plaintiff-States; and (c) if to Defendant, by overnight mail or overnight delivery service, with a copy by electronic mail if practicable.

109. Notices submitted pursuant to this Section shall be deemed submitted upon delivery to the overnight delivery service, unless otherwise provided in this Consent Decree or by mutual agreement of the Parties in writing.

## **XXII. EFFECTIVE DATE**

110. The Effective Date of this Consent Decree shall be the date upon which this Consent Decree is entered by the Court or a motion to enter the Consent Decree is granted, whichever occurs first, as recorded on the Court's Docket.

## **XXIII. RETENTION OF JURISDICTION**

111. The Court shall retain jurisdiction over this case until termination of this Consent Decree, for the purpose of resolving disputes arising under this Decree or entering orders

modifying this Decree, pursuant to Sections XVII (Dispute Resolution) and XXIV (Modification), or effectuating or enforcing compliance with the terms of this Decree.

#### **XXIV. MODIFICATION**

112. The terms of this Consent Decree, including the Appendices, may be modified only by a subsequent written agreement signed by the Plaintiffs and Defendant. Where the modification constitutes a material change to any term of this Consent Decree, it shall be effective only upon approval by the Court.

113. Any disputes concerning modification of this Decree or the issue of the materiality of any modification of this Decree shall be resolved pursuant to Section XVII (Dispute Resolution) of this Decree, provided however, that, instead of the burden of proof provided by Paragraph 87, the Party seeking the modification bears the burden of demonstrating that it is entitled to the requested modification in accordance with Federal Rule of Civil Procedure 60(b).

#### **XXV. SALES OR TRANSFER OF OPERATIONAL OR OWNERSHIP INTERESTS**

114. At least 60 Days prior to any transfer of ownership or operation of any Facility, Defendant shall provide a copy of this Consent Decree to the proposed transferee and shall simultaneously provide written notice of the prospective transfer, to EPA, the United States, and Plaintiff-States in accordance with Section XXI (Notices) of this Consent Decree, and subject to the provisions of Paragraph 95 of this Consent Decree. No transfer of ownership or operation of a Facility, whether in compliance with the procedures of this Paragraph or otherwise, shall relieve Defendant of its obligation to ensure that the terms of the Consent Decree are implemented, unless and until:

- a. the transferee agrees, in writing, to undertake the obligations required by Sections V (Environmental Mitigation), VI (SO<sub>2</sub> Control Technology, Emissions Limits, And Monitoring Requirements), VII (NO<sub>x</sub> Control Technology, Emissions Limits, And Monitoring Requirements), VIII (PM Control Technology, Emissions Limits, Best Management Practices, and Early Warning System Requirements), IX (Prohibition on Use of Flares and Hickok Existing Tail Gas Boiler), X (Prohibition on Netting Credits or Offsets), XI (Permits), XII (Review and Approval of Submittals), XIII (Reporting and Recordkeeping Requirements), XIV (Stipulated Penalties), XV (Force Majeure), XVII (Dispute Resolution), and XVIII (Information Collection and Retention) applicable to such Facility, and to be substituted for Defendant as a Party under the Decree with respect to such Facility and thus to become bound by the terms thereof;
- b. the United States and Plaintiff-States consent, in writing, to relieve Defendant of its Consent Decree obligations applicable to such Facility, and
- c. the transferee becomes a party to this Consent Decree with respect to the transferred Facility, pursuant to Section XXIV (Modification).

115. Any attempt to transfer ownership or operation of any of the Facilities or any portion thereof, without complying with Paragraph 114(a)-(c) above constitutes a violation of this Consent Decree.

## **XXVI. PUBLIC PARTICIPATION**

116. The Parties agree and acknowledge that final approval by the United States and entry of this Consent Decree are subject to the procedures of 28 C.F.R. § 50.7, which provides for notice of the lodging of this Consent Decree in the Federal Register, an opportunity for public comment, and the right of the United States to withdraw or withhold consent if the comments disclose facts or considerations which indicate that the Consent Decree is inappropriate, improper, or inadequate. The Defendant shall not oppose entry of this Consent Decree by this Court or challenge any provision of this Consent Decree unless the United States has notified the Defendant, in writing, that the United States no longer supports entry of the Consent Decree. Further, the parties agree and acknowledge that final approval by LDEQ, and entry of this Consent Decree is subject to the requirements of La. R.S. 30:2050.7, which provides for public notice of this Consent Decree in newspapers of general circulation and the official journals of parishes in which the Defendant's facilities are located, an opportunity for public comment, consideration of any comments, and concurrence by the State Attorney General. LDEQ reserves the right to withdraw or withhold consent if the comments regarding this Consent Decree disclose facts or considerations which indicate that this Consent Decree is inappropriate, improper or inadequate.

## **XXVII. TERMINATION**

117. Termination as to an Individual Facility. After Defendant has paid the Section IV civil penalty and any stipulated penalties due under this Consent Decree, and satisfied the requirements of Sections VI (SO<sub>2</sub> Control Technology, Emissions Limits, and Monitoring Requirements), VII (NO<sub>x</sub> Control Technology, Emissions Limits, and Monitoring Requirements), VIII (PM Control Technology, Emissions Limits, Best Management Practices, and Early

Warning System Requirements), IX (Prohibition on Use of Flares and Hickok Existing Tail Gas Boiler), X (Prohibition on Netting Credits or Offsets), and XI (Permits) of this Decree and has maintained operation of any Control Technology as required by this Consent Decree for a period of 24 consecutive Months at an individual Facility, Defendant may serve upon the United States and Plaintiff-States a request for termination pursuant to the requirements of Paragraph 120.

With respect to the SO<sub>2</sub> Emissions Limits at North Bend, Defendant shall maintain operation of any Control Technology as required by this Consent Decree and achieve and maintain the Final 7-day Rolling Average Emissions Limit for SO<sub>2</sub> and Final 365-day Rolling Average Emissions Limit SO<sub>2</sub>, and with respect to the NO<sub>x</sub> Emissions Limits at Hickok, Defendant shall maintain operation of the Low NO<sub>x</sub> Combustion System or Co-Generation System as required by this Consent Decree and achieve and maintain the Final 7-day Rolling Average Emissions Limit for NO<sub>x</sub> and Final 365-day Rolling Average Emissions Limit NO<sub>x</sub>, for a period of 12 consecutive Months at an individual Facility, prior to serving upon the United States and Plaintiff-States a request for termination pursuant to the requirements of Paragraph 120. If the United States and Plaintiff-States agree that the Decree as it relates to an individual Facility may be terminated, the Parties shall submit, for the Court's approval, a joint stipulation terminating those provisions of the Decree.

118. Termination as to Environmental Mitigation. After Defendant has paid the Section IV civil penalty and any stipulated penalties with respect to Environmental Mitigation due under this Consent Decree, and satisfied the requirements of Section V (Environmental Mitigation), Defendant may serve upon the United States and Plaintiff-States a Request for Termination pursuant to the requirements of Paragraph 120. If the United States and Plaintiff-States agree that the Decree as it relates to the requirements of Section V (Environmental



Mitigation) may be terminated, the Parties shall submit, for the Court's approval, a joint stipulation terminating those provisions of the Decree.

119. Complete Termination. After Defendant has satisfied the requirements of Sections IV (Civil Penalty), V (Environmental Mitigation), VI (SO<sub>2</sub> Control Technology, Emissions Limits, and Monitoring Requirements), VII (NO<sub>x</sub> Control Technology, Emissions Limits, and Monitoring Requirements), VIII (PM Control Technology, Emissions Limits, Best Management Practices, and Early Warning System Requirements), IX (Prohibition on Use of Flares and Hickok Existing Tail Gas Boiler), X (Prohibition on Netting Credits or Offsets), and XI (Permits) of this Decree and has maintained satisfactory compliance with the obligation to operate the Control Technology as required by this Consent Decree for a period of 24 consecutive Months at all Facilities, has complied with all other requirements of this Consent Decree, and has paid the civil penalty and any accrued stipulated penalties as required by this Consent Decree, Defendant may serve upon the United States and the relevant Plaintiff-State a request for termination pursuant to the requirements of Paragraph 120. With respect to the SO<sub>2</sub> Emissions Limits at North Bend, Defendant shall maintain operation of any Control Technology as required by this Consent Decree and achieve and maintain the Final 7-day Rolling Average Emissions Limit for SO<sub>2</sub> and Final 365-day Rolling Average Emissions Limit SO<sub>2</sub>, and with respect to the NO<sub>x</sub> Emissions Limits at Hickok, Defendant shall maintain operation of the Low NO<sub>x</sub> Combustion System or Co-Generation System as required by this Consent Decree and achieve and maintain the Final 7-day Rolling Average Emissions Limit for NO<sub>x</sub> and Final 365-day Rolling Average Emissions Limit NO<sub>x</sub>, for a period of 12 consecutive Months at an individual Facility, prior to serving upon the United States and Plaintiff-States a request for termination pursuant to the requirements of Paragraph 120. If the United States and the Plaintiff-

State agree that the Decree may be terminated, the Parties shall submit, for the Court's approval, a joint stipulation terminating the Decree.

120. Request for Termination. If Defendant elects to terminate this Consent Decree in whole or part, Defendant shall submit a written report to EPA and Plaintiff-States, as set forth in Section XXI (Notices), that (a) describes the activities undertaken, (b) attaches any applicable permits or SIP amendments obtained pursuant to the requirements of Section XI (Permits) that incorporate the requirements that will survive termination of this Consent Decree that are listed in Paragraph 44, and (c) certifies that each of the applicable Sections listed in Paragraphs 117 – 119 have been completed in full satisfaction of the requirements of this Consent Decree and that Defendant is in full compliance with those Sections of the Consent Decree. The report will contain the following certification, signed by an official of Defendant:

“I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.”

121. If the United States and Plaintiff-States do not agree that the Consent Decree as a whole or as it relates to an individual Facility may be terminated, Defendant may invoke dispute resolution under Section XVII (Dispute Resolution) of this Decree. However, Defendant shall not seek resolution of any dispute regarding termination under Section XVII (Dispute Resolution) until 60 Days after service of its Request for Termination.

## **XXVIII. SIGNATORIES/SERVICE**

122. Each undersigned representative of Defendant and Plaintiff-States, and the Assistant Attorney General for the Environment and Natural Resources Division of the United States Department of Justice, certifies that he or she is fully authorized to enter into the terms and conditions of this Consent Decree and to execute and legally bind the Party he or she represents to this document.

123. This Consent Decree may be signed in counterparts, and its validity shall not be challenged on that basis. Defendant agrees to accept service of process by mail with respect to all matters arising under or relating to this Consent Decree and to waive the formal service requirements set forth in Rules 4 and 5 of the Federal Rules of Civil Procedure and any applicable Local Rules of this Court including, but not limited to, service of a summons. All Parties agree that Defendant need not file an answer or otherwise respond to the Complaint in this action unless or until the Court expressly declines to enter this Consent Decree.

## **XXIX. INTEGRATION**

124. This Consent Decree constitutes the final, complete, and exclusive agreement and understanding among the Parties with respect to the settlement embodied in the Decree and supersedes all prior agreements and understandings, whether oral or written, concerning the settlement embodied herein. No other document, nor any representation, inducement, agreement, understanding or promise constitutes any part of this Decree or the settlement it represents, nor shall it be used in construing the terms of this Decree.

## **XXX. FINAL JUDGMENT**

125. Upon approval and entry of this Consent Decree by the Court, this Consent

Decree shall constitute a final judgment of the Court as to the Plaintiffs and Defendant.

### **XXXI. APPENDICES**

126. The following Appendices are attached to and incorporated as part of this Consent Decree:

“Appendix A” contains the requirements of the Environmental Mitigation Projects.

“Appendix B” contains the Other PM Control Requirements.

“Appendix C” contains the Particulate Emissions Best Management Practices Control Plan.

“Appendix D” contains the PM Early Warning System requirements.

“Appendix E” contains the Protocol For Setting Final SO<sub>2</sub> Emission Limits at North Bend.

“Appendix F” contains the Protocol For Setting Final NO<sub>x</sub> Emission Limits at Hickok.

All terms in the Appendices shall be construed in a manner consistent with this Decree.

Signature Page for *United States of America et al v. Columbian Chemicals Company*, Consent Decree

FOR PLAINTIFF UNITED STATES OF AMERICA:

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JEFFREY H. WOOD  
Acting Assistant Attorney General  
Environment and Natural Resources  
Division  
United States Department of Justice

Date:

12/18/17



ELIAS QUINN  
Trial Attorney  
Environmental Enforcement Section  
Environment and Natural Resources Division  
United States Department of Justice  
P.O. Box 7611  
Washington, D.C. 20044-7611

Date:

12/18/17

Signature Page for *United States of America et al v. Columbian Chemicals Company*, Consent Decree

FOR PLAINTIFF UNITED STATES OF AMERICA:

ALEXANDER C. VAN HOOK  
Acting United States Attorney  
Western District of Louisiana

s/ Katherine W. Vincent  
KATHERINE W. VINCENT (18717)  
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Date: 12/21/17

s/ Shannon T. Brown  
SHANNON T. BROWN (32366)  
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Date: 12/21/17

Signature Page for *United States of America et al v. Columbian Chemicals Company*, Consent Decree

FOR THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY:

**cJ:51**

**LANCE STARFIELD**  
Acting Assistant Administrator  
Office of Enforcement and Compliance Assurance  
United States Environmental Protection Agency

Date:

12/20/2017



**PHILLIP A. BROOKS**  
Director, Air Enforcement Division  
Office of Enforcement and Compliance Assurance  
United States Environmental Protection Agency

Date:

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**ANTHONY J. ...**

**ANTHONY J. ...**  
Attorney-Advisor, Air Enforcement Division  
Office of Enforcement and Compliance Assurance  
United States Environmental Protection Agency

Date:

12-19-17



Signature Page for *United States of America et al. v. Columbian Chemicals Company*, Consent Decree

FOR THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY:

          O-----          

CHERYL T. SEAGER

Director

Compliance Assurance and Enforcement Division

U.S. Environmental Protection Agency, Region 6

1445 Ross Ave.

Dallas, TX 75202-2733

Date: 1 / 10 / 17

Signature Page for *United States of America et al. v. Columbian Chemicals Company*, Consent Decree

FOR THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY:

A handwritten signature in black ink, appearing to read "David Cozad", written over a horizontal line.

**DAVID COZAD**

Regional Counsel

U.S. Environmental Protection Agency, Region 7

Date: fo/ r//;

Signature Page for *United States of America et al. v. Colimbia11 Chemicals Company*, Consent Decree

FOR THE KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT

**Suxi..mt<liu: V:no,**  
Secretary  
Kansas Department of Health and Environment  
1000 SW Jackson, Suite 310  
Topeka, Kansas 66612-1366

Date (J.-J0-J)

Signature Page for *United States of America et al. v. Columbian Chemicals Company*. Consent Decree, subject to the public notice and comment requirements of La.R.S. 30:2050.7

FOR LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

  
LOUISE L. STRAIN

Date 12/22/17

Assistant Secretary  
Office of Environmental Compliance  
Louisiana Department of Environmental Quality  
P.O. Box 4312  
Baton Rouge, Louisiana 70821-4312

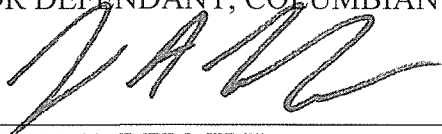
  
PERRY TIERNOT, LA BAR Roll# 19181

Date 12/22/17

Attorney Supervisor  
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Lead Counsel  
Office of the Secretary, Legal Division  
Louisiana Department of Environmental Quality  
P.O. Box 4302  
Baton Rouge, Louisiana 70821-4302  
Telephone No. (225) 219-3987

Signature Page for *United States of America et al. v. Columbian Chemicals Company*, Consent Decree

FOR DEFENDANT, COLUMBIAN CHEMICALS COMPANY

A handwritten signature in dark ink, appearing to read 'JAL', is written over a horizontal line.

JOHN LOUDERMILK

President

Columbian Chemicals Company

Date 12/21/17

## **APPENDIX A: ENVIRONMENTAL MITIGATION PROJECTS**

- A. Defendant shall spend at least \$375,000, and shall comply with the requirements of this Appendix and with Section V (Environmental Mitigation) of the Consent Decree, to implement and secure the environmental benefits of the Environmental Mitigation Projects described below. Nothing in the Consent Decree or this Appendix shall require Defendant to spend any more than a total of \$375,000 on Environmental Mitigation Projects.
- B. Defendant shall spend at least \$375,000 in Project Dollars for the purchase, installation, and use of continuous-duty, cartridge dust collector technology (“Dust Collectors”) to minimize PM emissions from the carbon black product storage tanks at North Bend and Hickok. The Dust Collectors shall replace existing bag filters and shall include cartridge filters utilizing nanofiber technology to provide high removal efficiency of PM.
- C. Each Environmental Mitigation Project shall be completed by no later than four years from the Date of Entry of the Consent Decree. Any funds designated for a specific Environmental Mitigation Project that are left unspent, or are projected to be left unspent, after three years from the Date of Entry of the Consent Decree may be redirected by Defendant to one or more projects approved by EPA and the applicable Plaintiff-State. Any such redirected funds shall be spent by no later than five years from the Date of Entry of the Consent Decree.
- D. The Parties recognize that implementation of the Environmental Mitigation Projects in this Appendix may require action by third parties, such as non-government entities and state or local government entities. If Defendant is unable to complete an approved Environmental Mitigation Project in accordance with this Appendix due to such third-party’s failure to fulfill its obligations, and that failure is not caused by, and is beyond the control of, Defendant, despite Defendant’s best efforts to fulfill its obligations regarding the Environmental Mitigation Project as set out in the Consent Decree, then EPA and Defendant may agree to (1) allow Defendant to amend the Environmental Mitigation Project description in this Appendix as appropriate to successfully complete the Environmental Mitigation Project, or (2) cancel the Environmental Mitigation Project and redirect any unspent funds for the Environmental Mitigation Project to one or more projects approved by EPA and the applicable Plaintiff-State.

**APPENDIX B: OTHER PM CONTROL REQUIREMENTS**

<b>PM Emissions Equipment</b>	<b>PM Reduction Mechanism</b>	<b>Method for Managing PM Emissions</b>
Carbon Black Product Storage Tank, Silo or Bin	PM emissions shall be directed to either (a) a fabric filtration device that is equipped with filters specified by their supplier to achieve a PM collection efficiency of at least 99%, (b) a cartridge device that achieves a PM collection efficiency of at least 99%, or (c) a vacuum collection system that routes back to a Production Pulsaire at North Bend and a Receiving Tank Pulsaire at Hickok.	Provisions in Paragraphs 33 (Other PM Control Requirements) of this Consent Decree
Carbon Black Dryer	All PM emissions shall be directed to the Vapor Bag Collector (for recovery of product).	Provisions in Paragraphs 33 (Other PM Control Requirements) and 35 (PM Early Warning System) of this Consent Decree
Reactor	All carbon black product and PM emissions generated by the reactor shall be vented to a Main Bag Collector. Direct venting to the atmosphere of any carbon black product or PM emissions generated by the reactor is prohibited at all times.	Provisions in Paragraphs 33 (Other PM Control Requirements) of this Consent Decree, 35 (PM Early Warning System) of this Consent Decree, and distributed control system interlocks to verify that the flow of water to the Reactor Vent Scrubber has been initiated.
Main Bag Collectors	During periods other than Heat Load Operation, reactor Startup and Shutdown and Malfunctions, the Main Bag Collector Heat Load Vents shall be closed.	Provisions in Paragraphs 33 (Other PM Control Requirements) and 35 (PM Early Warning System) of this Consent Decree
Pulsaire at North Bend and Dust Collector at Hickok; Production Pulsaire for North Bend and Receiving Tank Pulsaire for Hickok; and Vapor Bag Collector	All PM emissions shall be handled as part of the inherent process unit operations that employ fabric filtration to separate carbon black product, in accordance with the Compliance Assurance Monitoring Regulations under 40 C.F.R. Part 64.	Provisions in Paragraphs 33 (Other PM Control Requirements) and 35 (PM Early Warning System) of this Consent Decree

### **APPENDIX C: PARTICULATE EMISSIONS BEST MANAGEMENT PRACTICES CONTROL PLAN**

The best management practices for minimizing particulate emissions described in this plan shall be followed at each of the Facilities at all times.

1. All operations and maintenance personnel shall be trained to both recognize leaks and spills of carbon black, and to report them to the proper plant personnel for response. Visual observation of the physical condition of plant process equipment that conveys, stores, loads, unloads, and packages carbon black, including at connection points between equipment and/or sections of piping, and of the physical condition of containers and bags used to package carbon black, shall be part of the daily responsibilities of the operations and maintenance personnel to help ensure that potential leaks are addressed before they occur.
2. All carbon black product shall be stored in tanks, silos, or closed bags. No carbon black product shall be stored in open piles.
3. All product and off-quality carbon black shall be shipped off-site and to the on-site landfill in closed bags, sealed cardboard boxes (for landfill), or sealed rail cars, hoppers, or bulk transport trucks, as relevant.
4. All process equipment at the Facilities shall be designed, operated, and maintained in a manner intended to minimize leaks and spills of carbon black and fugitive particulate emissions. In addition, the Facilities shall develop and implement practices to collect carbon black dust otherwise emitted from product conveyance, packaging, and storage operations, and either recycle it back into the manufacturing process or convey it to a packaging system. Where practicable, the operation of such equipment, including carbon black product conveyors, elevators, and packing units, shall be served by vacuum systems that collect carbon black.
5. All process equipment shall be located either indoors or in outdoor areas that have paved or rock/gravel ground surfaces.
6. Events that trigger the PM Early Warning System shall be handled pursuant to the protocol in Appendix D (PM Early Warning System) of this Consent Decree. Leaks and spills of all carbon black that are otherwise identified shall be investigated and addressed (cleaned up and repaired) either immediately upon discovery or as quickly as practicable. When immediate repair or isolation is not feasible, the actions taken to complete the repair shall be documented. Incident reports for spills or leaks of carbon black shall be created to document cause and corrective actions.
7. Special precautions shall be taken during maintenance actions to minimize particulate emissions from the equipment on which maintenance is being performed. Prior to conducting maintenance or baghouse bag replacement on equipment that is prone to accumulation of carbon black on its interior surfaces, including, but not limited to, on the



Main Bag Collectors, Production Pulsaire for North Bend and Receiving Tank Pulsaire for Hickok, Vapor Bag Collectors, elevators and conveyors, and storage tanks and silos, the responsible maintenance personnel shall identify and take steps necessary to minimize the generation of particulate emissions at the equipment being maintained during the maintenance or bag replacement activity. The specific approaches taken to minimize particulate emissions during maintenance or bag replacement shall be developed on a case-specific basis based on the judgment of the maintenance personnel and shall include, as relevant, but need not be limited to, activities such as the following:

- vacuuming carbon black from the equipment prior to beginning the maintenance,
  - vacuuming or washing down the equipment when an appropriate stage in the maintenance activity has been reached,
  - if units are equipped with vents, closing vents during maintenance to prevent drafting of PM, except when Defendant conducts a safety or hazard analysis and concludes in writing that closing the vent would create an unsafe or unhealthy work atmosphere, and
  - sealing filter bags removed from Main Bag Collectors inside plastic bags.
8. Accessible floor and/or ground surfaces in the carbon black production areas shall be swept or washed as needed in order to minimize particulate emissions attributable to leaks or spills of carbon black that are not otherwise identified and/or addressed during the daily Visual Assessments conducted pursuant to Paragraph 33 of this Consent Decree. All material collected through these actions shall either be incorporated into the production process/used as product for commercial distribution or properly disposed of in accordance with applicable regulatory standards.

**APPENDIX D: PM EARLY WARNING SYSTEM**

1. Defendant shall install a PM Early Warning System at each of its Facilities to monitor the PM emitted from each PM Monitor Point. Each PM Monitor Point shall be set to a specific alarm action level, such that an alarm is triggered when the PM at a PM Monitor Point exceeds the normal range of PM according to the manufacturer's recommendations during operation of the Process System.
2. By the dates in the table below, Defendant shall submit for Plaintiffs' approval, alarm action levels for each PM Monitor Point, in accordance with Paragraph 1 of this Appendix D, and Defendant shall set each PM Early Warning System to such alarm action levels:

<b>Process System</b>	<b>Action Level Approval Date</b>	<b>Action Level Set Date</b>
North Bend Process System	12/1/18	1/1/19
Hickok Process Systems	12/1/18	1/1/19

3. Beginning on the Date of Continuous Operation in Paragraph 35, Defendant shall operate each PM Early Warning System at all times of Heat Load Operation and Process System Operation, except for during system breakdowns, repairs, maintenance, calibration checks, and zero and span adjustments of the applicable PM Early Warning System. For purposes of demonstrating compliance with the requirements in Paragraph 2 of this Appendix D, the minimum degree of data availability shall be at least 90% for the first three years following the Effective Date of the Consent Decree, and 95% thereafter, based on a quarterly average of the operating time of the emission unit or activity being monitored.
4. In the event that an alarm is triggered for any PM Early Warning System, Defendant shall investigate the cause of the alarm as expeditiously as practicable by performing each of the following tasks:
  - a. Reviewing the data output for the relevant PM Early Warning System to determine whether the alarm corresponds to an actual exceedance of the alarm action level;
  - b. If review of the data confirms an exceedance of the alarm action level, Defendant shall conduct a visual assessment (Method 22) of the equipment monitored by the

pertinent PM Early Warning System for three minutes to determine if there are any detectable visual emissions. Defendant shall also conduct an appropriate equipment inspection to seek to identify the source of the alarm.

- c. If the visual assessment or other observations identify a process, equipment or other condition(s) causing an increase in PM emissions that may be responsible for triggering the relevant alarm, determining whether the relevant equipment can be isolated to reduce the excess PM emissions below alarm levels, without requiring a Process System Shutdown;
  - d. If the relevant equipment can be isolated without requiring Process System Shutdown, isolating and repairing such equipment prior to returning it to service;
  - e. If the relevant equipment cannot be isolated without requiring Process System Shutdown, such as if there is a leak from a dryer, a broken bag in a baghouse, or a Malfunction of any other component that cannot be isolated to the extent necessary to prevent continued excess PM emissions, shutting down the relevant equipment and only returning it to service after it has been repaired;
  - f. If the triggering event has not been identified and resolved within 24 hours, having a Method 9 Trained Observer (i) conduct a visual assessment of the equipment monitored by the pertinent PM Early Warning System to determine if there are any detectable visual emissions, and, (ii) in the event that any such visible emissions are observed, conduct a six minute observation in accordance with Method 9 to determine if opacity levels are greater than 20%, and (iii) if opacity levels are greater than 20%, conduct a six minute observation in accordance with Method 9 once every 8 hours (during daylight hours) until visible emissions are less than 20% of opacity levels;
  - g. If, after investigation, the source of any elevated PM emissions cannot be identified, shutting down the subject equipment as soon as practicable to prevent further alarms and to minimize emissions and ensure the safety of employees and the community and only returning the equipment to service after the source of the excess emissions has been identified and repaired.
5. Notwithstanding the foregoing, to the extent that recorded information for the relevant PM Early Warning System indicates that operations have returned to normal operating ranges, below levels triggering an alarm condition, Defendant is not otherwise obligated to continue with implementation of the steps listed above, and may continue operation of the relevant equipment.
  6. Defendant shall maintain a record of any event that triggers the alarm for any PM Early Warning System sufficient to meet the requirements in Section XIII (Recordkeeping and Reporting Requirements) of this Consent Decree.

7. Defendant shall perform routine maintenance of each PM Early Warning System installed pursuant to this Appendix D and Paragraph 35 of this Consent Decree in accordance with any manufacturer recommendations and the following requirements:
  - a. On at least a semiannual basis, Defendant shall visually inspect and clean each sensor within the PM Early Warning System, in accordance with manufacturer recommendations, to ensure continued effective operation of the PM Early Warning System.
  - b. On at least an annual basis, Defendant shall comprehensively inspect the PM Early Warning System and make any necessary repairs.
8. The PM Early Warning System shall not be required to quantitatively measure PM emissions.

**APPENDIX E: PROTOCOL FOR SETTING FINAL SO<sub>2</sub> EMISSION LIMITS AT  
NORTH BEND**

1. If Defendant elects to comply with the applicable Final 7-day Rolling Average Emissions Limits and Final 365-day Rolling Average Emissions Limits for SO<sub>2</sub> set forth in Section VI (SO<sub>2</sub> Control Technology, Emissions Limits, and Monitoring Requirements) of this Consent Decree, pursuant to Option B, the Parties shall follow the protocol specified in this Appendix E.
2. Design Considerations. Defendant's proposed process design specifications submitted pursuant to the requirements of paragraph 18 of this Consent Decree for each WGS or DGS shall evaluate, at a minimum, the following parameters:
  - a. Absorber Vessel
    - i. Volume
    - ii. Dimensions
    - iii. Pressure Drop
    - iv. Internal Configuration
    - v. Location in Process Train
  - b. Scrubbing Liquor (for WGS only)
    - i. Scrubbing Liquor Blowdown/Makeup
    - ii. Scrubbing Liquor Circulation Rate
    - iii. Scrubbing Liquor pH
  - c. Sorbent Injection (for DGS only)
    - i. Type and chemical composition of sorbent
    - ii. Sorbent injection rate
  - d. Flue Gas Characteristics
    - i. Inlet/Outlet SO<sub>2</sub>/SO<sub>3</sub> Concentrations
    - ii. Flue Gas Volumetric Flow
    - iii. Inlet/Outlet Temperature Range
    - iv. Inlet/Outlet Particulate Loading and Characteristics
  - e. Designed to Removal Efficiency
  - f. Safety Considerations

If Defendant elects to pursue installation of an Alternative Equivalent Pollution Control Technology, Defendant shall propose a list of design considerations and operating

parameters with supporting rationale for use in lieu of those listed in Paragraphs 2 and 3 of this Appendix E for the Alternative Equivalent Pollution Control Technology that includes design considerations and operating parameters that have a significant effect on percent removal of SO<sub>2</sub>. Defendant shall submit this information when Defendant submits the proposal for approval of the Alternative Equivalent Pollution Control Technology in accordance with Paragraph 19 of this Consent Decree.

3. Optimization and Demonstration Study. Defendant shall conduct an 18 Month Optimization and Demonstration Study, which shall begin no later than the applicable Date of Continuous Operation set forth in Paragraph 17 of this Consent Decree. Defendant shall submit a protocol consistent with the applicable design considerations for each Optimization and Demonstration Study to EPA no later than 3 Months prior to commencement of the Optimization and Demonstration Study, which shall identify, at a minimum, the operating parameters set forth in 3.a. and 3.b. below. During the first 3 Months of each Optimization and Demonstration Study, Defendant shall operate the applicable WGS or DGS or Alternative Equivalent Pollution Control Technology consistent with the protocol submitted by Defendant, with the objective of establishing optimum operating levels to minimize SO<sub>2</sub> emissions for, at a minimum, the following parameters:
  - a. Scrubbing Liquor (for WGS only)
    - i. Scrubbing Liquor/ Blowdown/Makeup
    - ii. Scrubbing Liquor Circulation Rate
    - iii. Scrubbing Liquor pH
  - b. Sorbent Injection (for DGS only)
    - i. Type and chemical composition of sorbent
    - ii. Sorbent injection rate
  - c. Pressure drop
  - d. Emission Rates
    - i. Outlet SO<sub>2</sub> Concentration
    - ii. Actual Removal Efficiency

Within 30 Days of completion of the first 3 Months of each Optimization and Demonstration Study, Defendant shall submit to EPA a written report that documents any conclusions that it reached in its analysis of the data from that period, and provides any relevant data supporting those conclusions.

During the last 15 Months of each Optimization and Demonstration Study, Defendant shall operate the applicable WGS or DGS or Alternative Equivalent Pollution Control Technology in a manner consistent with the conclusions reflected in the written report of

the Optimization and Demonstration Study, with the objective of minimizing SO<sub>2</sub> emissions to the extent practicable based on the design criteria.

4. Optimization and Demonstration Study Report. Defendant shall submit the results of the complete Optimization and Demonstration Study to EPA in a written report no later than 60 Days after the completion of the Optimization and Demonstration Study. The report shall include the following information:
  - a. Each hourly average SO<sub>2</sub> and O<sub>2</sub> concentration at the point of emission to the atmosphere and at the inlet to the WGS or DGS or Alternative Equivalent Pollution Control Technology, as measured by a CEMS during the Optimization and Demonstration Study, and each hourly average value for each of the operating parameters listed in Paragraph 3 of this Appendix E.
  - b. An evaluation of the effect, and identification of the optimum operating level, of each operating parameter listed in Paragraph 3 of this Appendix E, on the minimization of SO<sub>2</sub> emissions from the relevant Process System.
  - c. A proposed final 7-day Rolling Average Emissions Limit (in ppmvd, at 0% oxygen), and a proposed final 365-day Rolling Average Emissions Limit for SO<sub>2</sub> (in ppmvd, at 0% oxygen), within the range set forth for Option B in the applicable cell in the table in Paragraph 17, to optimize operation of the WGS, DGS, or Alternative Equivalent Pollution Control Technology and minimize SO<sub>2</sub> emissions to the extent practicable.

Defendant shall supplement the report with any other information that EPA identifies as relevant to its evaluation of the Optimization and Demonstration Study.

5. Compliance with Proposed Final Emissions Limits. Defendant shall immediately upon submission of the Optimization and Demonstration Study to EPA, and, continuing thereafter, until such time as Defendant is required to comply with the applicable Final 7-day Rolling Average Emissions Limit and Final 365-day Rolling Average Emissions Limit established pursuant to Paragraphs 6 and 7 of this Appendix E, Continuously Operate, a WGS or DGS or Alternative Equivalent Pollution Control Technology on each Process System specified in the table in Paragraph 17 to this Consent Decree, so as to achieve and maintain the applicable proposed final 7-day Rolling Average Emissions Limit and proposed final 365-day Rolling Average Emissions Limit.
6. EPA Establishment of Final Emission Limits. EPA, after consultation with Plaintiff-States, shall establish Final 7-day Rolling Average Emissions Limits and Final 365-day Rolling Average Emissions Limits for SO<sub>2</sub> within the range set forth for Option B in the applicable cell in the table in Paragraph 17 to this Consent Decree. EPA shall base its determination on: (i) the level of performance of the applicable WGS or DGS or Alternative Equivalent Pollution Control Technology during the Optimization and

Demonstration Study; (ii) a reasonable certainty of compliance; and (iii) any other available and relevant information.

7. Compliance with Final Emission Limits. Defendant shall immediately, or, if the EPA-established Final 7-day Rolling Average Emissions Limit or Final 365-day Rolling Average Emissions Limit for SO<sub>2</sub> for the applicable Process System is different from Defendant's proposed final Emissions Limits, no later than 30 Days after receipt of written notice from EPA, and, continuing thereafter, Continuously Operate, a WGS or DGS or Alternative Equivalent Pollution Control Technology on each Process System specified in the table in Paragraph 17 to this Consent Decree, so as to achieve and maintain the applicable Final 7-day Rolling Average Emissions Limit and Final 365-day Rolling Average Emissions Limit.
8. Emissions Limits Option. At any time, Defendant may notify EPA and Plaintiff-States in writing in accordance with the notice provisions of Section XXI (Notices) of this Consent Decree that it will accept and agree to immediately, and continuing thereafter Continuously Operate, a WGS or DGS or Alternative Equivalent Pollution Control Technology on each Process System specified in the table in Paragraph 17 of this Consent Decree, so as to achieve and maintain the Final 7-day Rolling Average Emissions Limits and Final 365-day Rolling Average Emissions Limits for SO<sub>2</sub> set forth for Option A in the applicable cell in the table in Paragraph 17.



## **APPENDIX F: PROTOCOL FOR SETTING FINAL NO<sub>x</sub> EMISSION LIMITS AT HICKOK**

1. If Defendant elects to comply with the applicable Final 7-day Rolling Average Emissions Limits and Final 365-day Rolling Average Emissions Limits for NO<sub>2</sub> at Hickok set forth in Section VII (NO<sub>x</sub> Control Technology, Emissions Limits, and Monitoring Requirements) of this Consent Decree, pursuant to Option B, the Parties shall follow the protocol specified in this Appendix F.
2. Design Considerations. Defendant's proposed process design specifications submitted pursuant to the requirements of Paragraph 27 of this Consent Decree for the Low NO<sub>x</sub> Combustion System or Co-Generation System shall evaluate, at a minimum, the following parameters:
  - a. Burner Outlet Flue Gas Characteristics
    - i. Outlet NO<sub>x</sub> Concentrations
    - ii. Flue Gas Volumetric Flow
    - iii. Outlet Temperature Range
  - b. Over-Fire Air Criteria
    - i. Combustion air rate
    - ii. Over-Fire Air Rate
  - c. Low-NO<sub>x</sub> Burner Criteria
    - i. Manufacturer and model of Low-NO<sub>x</sub> Burner
    - ii. Expected NO<sub>x</sub> concentration for burning natural gas in ppmvd at 0% O<sub>2</sub>
    - iii. Size of burners in mmbtu/hour and number of burners
  - d. Designed to O<sub>2</sub> level
  - e. Safety Considerations
3. Optimization and Demonstration Study. Defendant shall conduct an 18 Month Optimization and Demonstration Study, which shall begin no later than the applicable Date of Continuous Operation set forth in Paragraph 26 of this Consent Decree. Defendant shall submit a protocol consistent with the applicable design considerations for each Optimization and Demonstration Study to EPA no later than 3 Months prior to commencement of the Optimization and Demonstration Study, which shall identify, at a minimum, the operating parameters set forth in 3.a. and 3.b. below. During the first 3 Months of each Optimization and Demonstration Study, Defendant shall operate the applicable Low NO<sub>x</sub> Combustion System or Co-Generation System consistent with the

protocol submitted by Defendant, with the objective of establishing optimum operating levels to minimize NO<sub>x</sub> emissions for, at a minimum, the following parameters:

- a. Over-Fire Air: maximizing the effectiveness of the Over-Fire Air
- b. O<sub>2</sub> (minimizing O<sub>2</sub> should minimize NO<sub>x</sub> and a specific O<sub>2</sub> level shall be established during the Optimization and Demonstration Study)
- c. Emission Rates: Outlet NO<sub>x</sub> Concentration

Within 30 Days of completion of the first 3 Months of each Optimization and Demonstration Study, Defendant shall submit to EPA a written report that documents any conclusions that it reached in its analysis of the data from that period, and provides any relevant data supporting those conclusions.

During the last 15 Months of each Optimization and Demonstration Study, Defendant shall operate the applicable Low NO<sub>x</sub> Combustion System or Co-Generation System in a manner consistent with the conclusions reflected in the written report of the Optimization and Demonstration Study, with the objective of minimizing NO<sub>x</sub> emissions to the extent practicable based on the design criteria.

4. Optimization and Demonstration Study Report. Defendant shall submit the results of the complete Optimization and Demonstration Study to EPA in a written report no later than 60 Days after the completion of the Optimization and Demonstration Study. The report shall include the following information:
  - a. Each hourly average NO<sub>x</sub> and O<sub>2</sub> concentration at the point of emission to the atmosphere, as measured by a CEMS during the Optimization and Demonstration Study, and each hourly average value for each of the operating parameters listed in Paragraph 3 of this Appendix F.
  - b. An evaluation of the effect, and identification of the optimum operating level, of each operating parameter listed in Paragraph 3 of this Appendix F, on the minimization of NO<sub>x</sub> emissions from the relevant Process System.
  - c. A proposed final 7-day Rolling Average Emissions Limit (in ppmvd, at 0% oxygen), and a proposed final 365-day Rolling Average Emissions Limit for NO<sub>x</sub> (in ppmvd, at 0% oxygen), within the range set forth for Option B in the applicable cell in the table in Paragraph 26 to this Consent Decree, to optimize operation of the Low NO<sub>x</sub> Combustion System or Co-Generation System and minimize NO<sub>x</sub> emissions to the extent practicable.

Defendant shall supplement the report with any other information that EPA identifies as relevant to its evaluation of the Optimization and Demonstration Study.

5. Compliance with Proposed Final Emissions Limits. Defendant shall immediately upon submission of the Optimization and Demonstration Study to EPA, and, continuing thereafter, until such time as Defendant is required to comply with the applicable Final 7-day Rolling Average Emissions Limit and Final 365-day Rolling Average Emissions Limit established pursuant to Paragraphs 6 and 7 of this Appendix F, Continuously Operate, a Low NO<sub>x</sub> Combustion System or Co-Generation System on each Process System specified in the table in Paragraph 26 to this Consent Decree, so as to achieve and maintain the applicable proposed final 7-day Rolling Average Emissions Limit and proposed final 365-day Rolling Average Emissions Limit.
  
6. EPA Establishment of Final Emission Limits. EPA, after consultation with Plaintiff-States, shall establish Final 7-day Rolling Average Emissions Limits and Final 365-day Rolling Average Emissions Limits for NO<sub>x</sub> within the range set forth for Option B in the applicable cell in the table in Paragraph 26. EPA shall base its determination on: (i) the level of performance of the applicable Low NO<sub>x</sub> Combustion System or Co-Generation System during the Optimization and Demonstration Study; (ii) a reasonable certainty of compliance; and (iii) any other available and relevant information.
  
7. Compliance with Final Emission Limits. Defendant shall immediately, or, if the EPA-established Final 7-day Rolling Average Emissions Limit or Final 365-day Rolling Average Emissions Limit for NO<sub>x</sub> for the applicable Process System is different from Defendant's proposed final Emissions Limits, no later than 30 Days after receipt of written notice from EPA, and, continuing thereafter, Continuously Operate, a Low NO<sub>x</sub> Combustion System or Co-Generation System on each Process System specified in the table in Paragraph 26 to this Consent Decree, so as to achieve and maintain the applicable Final 7-day Rolling Average Emissions Limit and Final 365-day Rolling Average Emissions Limit.
  
8. Emissions Limits Option. At any time, Defendant may notify EPA and Plaintiff-States in writing in accordance with the notice provisions of Section XXI (Notices) of this Consent Decree that it will accept and agree to immediately, and continuing thereafter Continuously Operate, a Low NO<sub>x</sub> Combustion System or Co-Generation System on each Process System specified in the table in Paragraph 26 of this Consent Decree, so as to achieve and maintain the Final 7-day Rolling Average Emissions Limits and Final 365-day Rolling Average Emissions Limits for NO<sub>x</sub> set forth for Option A in the applicable cell in the table in Paragraph 26.

**STATEMENT OF BASIS**  
**by**  
**Kansas Department of Health and Environment**  
**for**  
**Birla Carbon USA, Inc.**  
Source ID 0670007  
Class I Renewal, OP100093 v5.0 (O-13739)  
November 15, 2019

This statement of basis sets forth the legal and factual basis for the proposed permit conditions, including references to the applicable statutory or regulatory provisions. Determinations were made based upon the application submitted, file review, and reasonable inquiry.

**Facility Description**

The Birla Carbon USA, Inc. (Birla Carbon) carbon black plant is located at 3500 South Road S, Ulysses, KS 67880. Carbon black is produced at the facility by means of the oil furnace process, which entails the high-temperature pyrolysis of a hydrocarbon feedstock oil (called carbon black oil), consisting mainly of unsaturated hydrocarbons, predominantly higher than C14. Insignificant activities at the facility include oil transfers, central vacuum system, powder packer filter, fin tube steam heaters, bag printing, wastewater pond evaporation units and space heaters.

The Hickok Facility currently has two production trains (units) for the manufacture of carbon black (EU-R02 and EU-R03).

At the time of permit issuance, a Class I operating permit was required because the facility had the potential to emit (PTE) over 100 tons per year (tpy) of carbon monoxide (CO), nitrogen oxides (NO<sub>x</sub>), particulate matter less than 10 micrometers in size (PM<sub>10</sub>), sulfur dioxide (SO<sub>2</sub>), and volatile organic compounds (VOCs), over 10 tpy of the individual hazardous air pollutant (HAP), carbon disulfide (CS<sub>2</sub>), and over 25 tpy of combined HAPs.

**Facility Equipment**

Emission Source ID	Emission Source Description	Stack/Vent ID	Control Equipment ID	Control Equipment Description	Applicable Regulations
EU-B02	Boiler 02, 21 MMBtu/hr, natural gas	SV-28	N/A	N/A	K.A.R. 28-19-31(a) K.A.R. 28-19-31(b)(2) 40 CFR 60, Subpart Dc 9/18/1997 Construction Permit 40 CFR 63, Subparts A & DDDDD

Emission Source ID	Emission Source Description	Stack/Vent ID	Control Equipment ID	Control Equipment Description	Applicable Regulations
EU-BF01	Vapor bag filter 01 (Dryers 02A and 02B, which dry product from Reactor 02)	SV-11	CE-BF01	Fabric filter/ baghouse	K.A.R. 28-19-650(a)(3) 12/19/1995 (revised 12/22/2011) Construction Permit
EU-BF02	Vapor bag filter 02 (Dryer 03, which dries product from Reactor 03)	SV-12	CE-BF02	Fabric filter/ baghouse	K.A.R. 28-19-650(a)(3) 12/19/1995 (revised 12/22/2011) Construction Permit
EU-BF07	Hopper car loading transfers	SV-18	CE-BF07	Fabric filter/ baghouse	K.A.R. 28-19-650(a)(2)
EU-BF08	Hopper car loading transfers	SV-20	CE-BF08	Fabric filter/ baghouse	K.A.R. 28-19-650(a)(2)
EU-BF09	Hopper car loading transfers	SV-19	CE-BF09	Fabric filter/ baghouse	K.A.R. 28-19-650(a)(2)
EU-BLEND	Rotary blending and mixing operations – bead coating oil additive & hopper car loading system	SV-42	CE-BF06	Fabric filter/ baghouse	K.A.R. 28-19-20 K.A.R. 28-19-650(a)(3) 9/5/2000 Construction Permit
EU-R02	Reactor 02	SV-51 SV-52	CE-R02 EU-FLARE01 EU-TG01	Fabric filter baghouse, flare & boiler	K.A.R. 28-19-650(a)(3) 40 CFR 63, Subparts YY & SS 12/19/1995 (revised 12/22/2011), 3/11/2004, 12/22/2011, 2/2/1012, 5/2/2013 Construction Permits  November 15, 2019 Modification of Permit/Approval Conditions

Emission Source ID	Emission Source Description	Stack/Vent ID	Control Equipment ID	Control Equipment Description	Applicable Regulations
		SV-16 (used only for start-up, shut-down, and coast)	CE-R02	Fabric filter baghouse	K.A.R. 28-19-650(a)(2) 40 CFR 63, Subpart YY 12/19/1995 (revised 12/22/2011), 3/11/2004, 12/22/2011, 2/2/2012, 5/2/2013 Construction Permits  November 15, 2019 Modification of Permit/Approval Conditions
		SV-38 (used only when oil is not combusted)	N/A	N/A	K.A.R. 28-19-650(a)(3) 12/19/1995 (revised 12/22/2011), 3/11/2004, 12/22/2011, 2/2/2012, 5/2/2013 Construction Permits  November 15, 2019 Modification of Permit/Approval Conditions
EU-R03	Reactor 03	SV-51 SV-52	CE-R03 EU-FLARE01 EU-TG01	Fabric filter baghouse, flare & boiler	K.A.R. 28-19-650(a)(3) 40 CFR 63, Subparts YY & SS 12/19/1995 (revised 12/22/2011), 3/11/2004, 12/22/2011, 2/2/2012 Construction Permits  November 15, 2019 Modification of Permit/Approval Conditions
		SV-17 (used only for start-up, shut-down, and coast)	CE-R03	Fabric filter baghouse	K.A.R. 28-19-650(a)(2) 40 CFR 63, Subpart YY 12/19/1995 (revised 12/22/2011), 3/11/2004, 12/22/2011, 2/2/2012 Construction Permits  November 15, 2019 Modification of Permit/Approval Conditions

Emission Source ID	Emission Source Description	Stack/Vent ID	Control Equipment ID	Control Equipment Description	Applicable Regulations
		SV-39 (used only when oil is not combusted)	N/A	N/A	K.A.R. 28-19-650(a)(2) S 12/19/1995 (revised 12/22/2011), 3/11/2004, 12/22/2011, 2/2/2012 Construction Permits  November 15, 2019 Modification of Permit/Approval Conditions
EU-FLARE01	Tailgas Flare	SV-51	N/A	N/A	K.A.R. 28-19-650(a) (3) 40 CFR 63, Subparts YY & SS 3/11/2004 & 12/22/2011 Construction Permits
EU-TG01	Tailgas Boiler, 32 MMBtu/hr	SV-52	N/A	N/A	K.A.R. 28-19-31(a) K.A.R. 28-19-31(b)(2) 40 CFR 60, Subpart Dc 6/24/2004 & 12/22/2011 Construction Permits 40 CFR 63, Subparts A, YY
EU-WV02	Warehouse conveying, screening, handling, and bagging operations	SV-18	CE-BF07	Fabric filter/baghouse	K.A.R. 28-19-20 K.A.R. 28-19-650(a)(2)
EU-WV03	Warehouse conveying, screening, and handling operations	SV-20 SV-19	CE-BF08 CE-BF09	Fabric filter/baghouse	K.A.R. 28-19-20 K.A.R. 28-19-650(a)(2)
FS-OPEN	Open sources, conveyance systems, leaks	N/A	N/A	N/A	K.A.R. 28-19-650(a)(3)
IA-CENTRALVAC	Collection of carbon black for housekeeping	SV-CENTRALVAC	CE-CENTRALVAC	N/A	K.A.R. 28-19-650(a)(3)
IA-GEN	Emergency generator	SV-37	N/A	N/A	K.A.R. 28-19-650(a)(3)
IA-LAB	Analytical quality laboratory	SV-40	N/A	N/A	K.A.R. 28-19-650(a)(2)
TK-06	Feedstock oil storage tank, 630,000 gal	SV-44	N/A	N/A	K.A.R. 28-19-650(a)(3)
TK-07	Feedstock oil storage tank, 630,000 gal	SV-45	N/A	N/A	K.A.R. 28-19-650(a)(3)
TK-08	Feedstock oil storage tank, 630,000 gal	SV-46	N/A	N/A	K.A.R. 28-19-650(a)(3)

Emission Source ID	Emission Source Description	Stack/Vent ID	Control Equipment ID	Control Equipment Description	Applicable Regulations
TK-09	Bead coating oil storage tank, 20,000 gal	SV-43	N/A	N/A	K.A.R. 28-19-650(a)(3)
TK-10	Bulk carbon black storage tank, 23,300 gal	SV-18	CE-BF07	Fabric filter/ baghouse	K.A.R. 28-19-650(a)(2)
TK-11	Bulk carbon black storage tank, 23,300 gal	SV-18	CE-BF07	Fabric filter/ baghouse	K.A.R. 28-19-650(a)(2)
TK-12	Bulk carbon black storage tank, 23,300 gal	SV-18	CE-BF07	Fabric filter/ baghouse	K.A.R. 28-19-650(a)(2)
TK-13	Bulk carbon black storage tank, 23,300 gal	SV-18	CE-BF07	Fabric filter/ baghouse	K.A.R. 28-19-650(a)(2)
TK-14	Bulk carbon black storage tank, 13,300 gal	SV-18	CE-BF07	Fabric filter/ baghouse	K.A.R. 28-19-650(a)(2)
TK-15	Bulk carbon black storage tank, 5,300 gal	SV-18	CE-BF07	Fabric filter/ baghouse	K.A.R. 28-19-650(a)(2)
TK-16	Bulk carbon black storage tank, 5,300 gal	SV-18	CE-BF07	Fabric filter/ baghouse	K.A.R. 28-19-650(a)(2)
TK-17	Bulk carbon black storage tank, 5,300 gal	SV-20	CE-BF08	Fabric filter/ baghouse	K.A.R. 28-19-650(a)(2)
TK-18	Bulk carbon black storage tank, 5,300 gal	SV-20	CE-BF08	Fabric filter/ baghouse	K.A.R. 28-19-650(a)(2)
TK-19	Bulk carbon black storage tank, 13,300 gal	SV-20	CE-BF08	Fabric filter/ baghouse	K.A.R. 28-19-650(a)(2)
TK-20	Beaded carbon black storage tank, 33,300 gal	SV-42	CE-BF06	Fabric filter/ baghouse	K.A.R. 28-19-650(a)(3) 9/5/2000 Construction Permit
TK-21	Carbon black receiving tank from Units 2 & 3 reactors, 433 gal	SV-13	CE-BF03	Fabric filter/ baghouse	K.A.R. 28-19-650(a)(2)
TK-22	Carbon black receiving tank from Unit 2 reactor, 833 gal	SV-13	CE-BF03	Fabric filter/ baghouse	K.A.R. 28-19-650(a)(2)
TK-23	Carbon black receiving tank from Unit 2 reactor, 833 gal	SV-13	CE-BF03	Fabric filter/ baghouse	K.A.R. 28-19-650(a)(2)



Emission Source ID	Emission Source Description	Stack/Vent ID	Control Equipment ID	Control Equipment Description	Applicable Regulations
TK-24	Carbon black receiving tank from Unit 3 reactor, 833 gal	SV-14	CE-BF04	Fabric filter/ baghouse	K.A.R. 28-19-650(a)(2)

### Facility Emissions Summary

Pollutant	2018 Actual Emissions (tons)	Potential to Emit (tpy)
CO	1125.5	>100
NO <sub>x</sub>	416.9	>100
PM	23.5	>100
PM <sub>10</sub>	23.5	>100
PM <sub>2.5</sub>	23.5	>100
SO <sub>2</sub>	1231.5	>100
VOC	42.8	>100
Carbon Disulfide (HAP)	2.7	>10
Carbonyl Sulfide (HAP)	1.2	>10
Combined HAPs	3.9	>25

### Potential Applicable Requirements

1. K.A.R. 28-19-20. Particulate matter emissions. The Reactors #2 and #3 (EU-R02 and EU-R03) are not subject to this regulation because their input (feedstock oil or fuel oil) is not a solid material. EU-BLEND, EU-WV02, and EU-WV03 are subject and the KAR 28-19-20 requirements are included in the Class I Permit.
2. K.A.R. 28-19-23. Hydrocarbon emissions stationary sources. The facility has three tanks (TK-06, TK-07, and TK-08) greater than 40,000 gallon capacity and installed after January 1, 1972. However, since all three tanks store hydrocarbon liquids having a vapor pressure less than 3.0 psia, they are exempt from the provisions of this regulation. [K.A.R. 28-19-23(A)]
3. K.A.R. 28-19-24. Control of carbon monoxide (CO) emissions. The applicant does not operate a grey iron cupola and is therefore exempt from K.A.R. 28-19-24(A). While the burning of the feedstock oil in the facility's reactors is possibly a petroleum process under K.A.R. 28-19-24(B), the reactors were installed prior to January 1, 1972 and are therefore exempt from the provisions of this regulation. [K.S.A. 28-19-24(C)]

4. K.A.R. 28-19-26. Sulfuric acid mist emissions. The source does not produce sulfuric acid.
5. K.A.R. 28-19-30 through K.A.R. 28-19-31. Indirect heating equipment emissions. The facility's bathhouse space heaters (IA-H01 and IA-H02), warehouse space heater (IA-H03)) were installed prior to January 1, 1971 and are therefore subject to 40% opacity limit under K.A.R. 28-19-31(b)(1). Oil heaters EU-OH1 and EU-OH2 were removed in 2012. The facility has IA-OH1 and IA-OH2 (fin tube steam heaters) which have no combustion and therefore, are not subject to K.A.R. 28-19-30 through K.A.R. 28-19-31. The facility's boilers (EU-B02, EU-TG01) were installed after January 1, 1971 and are therefore subject to 20% opacity limit under K.A.R. 28-19-31(b)(2). All indirect heating equipment is natural gas or tailgas fired; therefore, it is presumed that the emission rate of particulate matter for this equipment will not exceed the limits specified in Table H1 of K.A.R. 28-19-31(a).
6. K.A.R. 28-19-40 through K.A.R. 28-19-43. Incinerator emissions. The source does not operate an incinerator.
7. K.A.R. 28-19-55 through K.A.R. 28-19-58. Emergency episode plans. Standard permit language will be used.
8. K.A.R. 28-19-61 through 28-19-77. The source is not subject since it is located outside Wyandotte and Johnson Counties.
9. K.A.R. 28-19-202. Annual fee payment. The owner or operator is required to pay fees to the permitting authority consistent with the fee schedule set out in the regulations.
10. Requirements and standards in construction permits, approvals, and consent decrees.
  - a. A Prevention of Significant Deterioration (PSD) construction permit was issued on June 30, 1989. The project consisted of adding a new dryer to Reactor 2. However, construction was not commenced within 18 months, therefore this permit was voided.
  - b. A PSD construction permit was issued December 19, 1995 and revised on December 22, 2011. This project consisted of replacing the dryer of Reactor #3 with a new dryer (dryer 03) and adding the dryer replaced to Reactor 02. Therefore, Reactor 02 ended up with dryer 02A and dryer 02B. The Unit Technical Specifications listed an additional product collector module (bag collector) shall be added to Reactor #2. Since there was no further mention of this bag collector (which would be "inherent to the process"), no requirements for this bag collector were included in the Class I Permit. The revised PSD permit has the following standards and requirements:
    - dryer 03 specifications included natural gas fueled;
    - the dust collection system on dryer 03 shall be in place and functioning as designed during production operations;
    - PM emissions from production Unit #2 (reactor 02, dryer 02A, and dryer 02B) shall not exceed 7.5 lbs per hour when operating at full capacity;
    - CO emissions from dryer 03 shall not exceed 0.23 lbs per hour;
    - the oil feedstock fed to Reactor 02 and Reactor 03 shall not exceed 4.0% sulfur by weight;

- production of carbon black in Reactor 02 shall not exceed 44,660 tons during any consecutive 12-month period; this limit was superseded by a more stringent limit in a 5/2/2013 permit (see paragraph l below);
- production of carbon black in Reactor 02 and 03 combined shall not exceed 197.4 tons per 24 hour period;
- CO ambient air monitoring was required for a period of five months;
- initial testing for PM and CO was required to demonstrate compliance with the above 7.5 lbs PM/hour and 0.23 lbs CO/hour limits;
- Birla Carbon shall maintain records (onsite for 2 years from the date of record) of daily production in Reactors 02 and 03;
- Birla Carbon shall maintain records (onsite for 2 years from the date of record) of production in Reactor 02 for each calendar month and each consecutive 12 month period;
- Birla Carbon shall report to KDHE in writing when any of the above production (carbon black) limits are exceeded;
- Birla Carbon shall maintain records (onsite for 2 years from the date of record) of quantities and sulfur content of oil purchased for feedstock.

All of the above standards and requirements are included in the Class I Permit except the CO ambient monitoring and the initial testing for PM and CO.

- c. A construction approval was issued September 18, 1997 for two boilers designated EU-B02 and EU-B03 (21 MMBtu/hr each). EU-B03 has been removed from the site in May 2006. The approval had the following requirements:

- The fuel for the boilers is limited to natural gas;
- The monitoring and recordkeeping requirements at 60.48c(g) and (i) shall be met;
- In accordance with 40 CFR 60.7(b), records consisting of the occurrence and duration of any start-up, shutdown or malfunction shall be maintained.

All of the above requirements for EU-B02 are included in the Class I permit.

- d. A construction permit was issued on September 5, 2000 for installation of an oil beading unit and bag collector. Tank TK-09 (volume 75.6 cubic meters) contains bead coating oil (vapor pressure of 0.2 kPa at 77°F). This permit had the following requirements:

- The bag collector shall be continuously operated while operating the rotary mixer-blender (EU-BLEND). This requirement is included in the Class I permit.
- The records required at 40 CFR 60.116b(a) and (b) shall be kept for TK-09. This requirement is not in the Class I permit because 40 CFR 60, Kb has changed so that a tank of  $\geq 75$  cubic meters and a maximum true vapor pressure of  $< 15.0$  kPa is not subject to Kb. A Modification of Permit/Approval Conditions (which modified this September 5, 2000 permit by removing this requirement) was issued on July 17, 2012, the same date as this Class I permit.

- e. A construction approval was issued on October 15, 2001 (amended November 26, 2001) for TK-06, TK-07, TK-08 (feedstock oil storage tanks, 630,000 gal each, maximum true vapor pressure <0.5 psia (<3.4 kPa)). The approval required the permittee to keep readily accessible records showing the dimensions of the liquid storage tanks and an analysis showing the capacity of the tanks. This requirement is not in the Class I permit because 40CFR 60, Kb has changed so that a tank of  $\geq 151$  cubic meters and a maximum true vapor pressure of <3.5 kPa is not required to keep these records. A Modification of Permit/Approval Conditions (which modified the October 15, 2001 Approval by removing this requirement) was issued on July 17, 2012, the same date as this Class I permit.
- f. A construction approval was issued on January 26, 2004 for a central vacuum system (IA-CENTRALVAC) to collect carbon black. There were no requirements other than an opacity limit.
- g. A construction permit was issued on March 11, 2004 for a flare (FLARE-01) that combusts tailgas from the carbon black reactors. This was a Pollution Control Project (PCP) that met the PSD permit requirements except Best Available Control Technology (BACT) was not required. EPA no longer allows PCP permits, so a PSD permit will be issued for the flare that includes BACT for NO<sub>x</sub> and SO<sub>2</sub>. The PCP permit required the flare to meet the requirements of 40 CFR 63, Subparts YY and SS. These requirements are included in the Class I Permit. An ambient air impact analysis was conducted as part of the PCP permit process. From this, it was determined that the project (the analysis included the tailgas boiler as well as the flare) will not cause or significantly contribute to a violation of any ambient air quality standard or to an exceedance of any PSD increment for SO<sub>2</sub> or NO<sub>x</sub>. This was demonstrated by modeling which assumed carbon black production from Reactor #2 and #3 combined to be 197.4 tons per day. This production limit is included in the Class I Permit.
- h. A construction approval was issued on June 24, 2004 for a 32 mmBtu/hr boiler which combusts tailgas from the carbon black reactors. This approval has the following requirements:
- The boiler is subject to K.A.R. 28-19-31. The applicable requirements are included in the Class I Permit.
  - This approval has the limit in 40 CFR 63 Subpart YY (Table 8 of 40 CFR 63.1103(f)(3)). This limit should not have been in the approval because the exhaust to the boiler does not meet the definition of process vent at 40 CFR 63.1101. This definition excludes exhaust emissions which are used for fuel. In this case, the exhaust is used as fuel for the boiler. This interpretation is backed up by Control Number M080008 of the EPA Applicability Determination Index (ADI). A Modification of Permit/Approval Conditions (which modified the June 24, 2004 Approval by removing this limit) was issued on July 17, 2012, the same date as the Class I permit was renewed.
  - Compliance with K.A.R. 28-19-9(c) was required. This was not included in the Class I Permit because this regulation only applies to portable units.

- Notifications in 40 CFR 60.7(a) were required. These are required in the Class I Permit.
  - The approval requires the tailgas boiler to be operated at all times when the reactor tailgas is vented to the boiler. This requirement is included in the Class I Permit.
  - The approval requires the following records to be kept at the facility for two years: the amount fuel combusted each month, occurrence and duration of any start-up, shutdown or malfunction. These requirements are included in the Class I Permit.
- i. An Approval was issued on April 12, 2007, to upgrade the burners on the two dryers associated with Reactor #2. Other than the opacity limit, there were no requirements in the Approval.
  - j. A PSD permit was issued for the existing flare and boiler for the tailgas flare and tailgas boiler on December 22, 2011. This permit replaced the March 11, 2004 PCP permit for the tailgas flare and the approval for the tailgas boiler issued June 24, 2004. The requirements of the PSD permit included applicable requirements of 40 CFR 63, Subparts SS and YY, production limits on the reactors, oil feedstock % sulfur limits, tailgas boiler temperature limits, and associated monitoring, record keeping and reporting. All of the permit requirements are included in the Class I permit except for the initial flare compliance assessment (completed in 2005) required by Subpart SS.
  - k. An Approval was issued on February 2, 2012, which requires the owner or operator to use either natural gas or feedstock oil in the reactors. This requirement is included in this Title V permit. The Approval included the MACT YY and SS requirements which are also included in this Title V permit.
  - l. A Construction Permit was issued on May 2, 2013, which approved upgrading the heat exchanger on carbon black Reactor #2. This permit had the following requirements: The owner or operator is required to document and maintain a record of the determination that the increase in emissions is not significant (as defined at 40 CFR 52.21(b)(23)). Applicable sections of 40 CFR 63, subpart YY and SS were also in this permit. Production of carbon black in Reactor #2 shall not exceed 40,840 tons during any consecutive 12-month period. Record keeping and reporting in regard to this limit were also in this permit. All of the above requirements were put into this Title V operating permit. From a permit issued 12/19/1995 (revised 12/22/2011), Reactor #2 had a production limit 44,660 tons per 12 months, which is no longer applicable since the new limit is more stringent.
  - m. A Consent Decree (CD) (Civil Action No. 17-1661) became effective on 6/11/2018. As stated in this permit, Birla is required to meet all of the requirements of the CD until it is closed. Within 12 months of commencement of operation of each control technology required by the Consent Decree, Birla is required to apply to permanently include the Consent Decree requirements and limitations below in a non-Title V permit. Those requirements and limitations are summarized as: 7-day rolling average emission limit for NO<sub>x</sub>, 365-day rolling average emission limit for NO<sub>x</sub>, 365-day rolling sum emission limit for NO<sub>x</sub>, limit on the 30-day rolling average sulfur content weight percent of feedstock, limit on the 365-day rolling average sulfur content weight percent of feedstock, PM control

technology, PM emission limits, PM best management practices, PM early warning system requirements, NOx cap, feedstock sulfur content monitoring requirements, NOx monitoring requirements, prohibition of use of existing tailgas boiler, and prohibition on use of flares. Upon issuance of the above non-Title V permit, Birla is required to file any applications necessary to incorporate the requirements of that permit into the Title V operating permit. The CD can not be closed until these requirements are in the Title V operating permit.

- n. On 4/17/2019, a Response was issued stating that no construction permit/approval is needed to construct a tailgas boiler and tailgas incinerator. This equipment will control emissions of both carbon black reactors. This control equipment was required by Consent Decree (Civil Action No. 17-1661) which became effective 6/11/2018. There are no new requirements for this equipment. The new boiler (rated 100 to 150 MMBtu/hr) will not be subject to 40 CFR 60, Subpart Db because the boiler fires tailgas which always has a CO concentration >10%. This means the boiler does not meet the NSPS definition of “steam generating unit” in 40 CFR 60.41b which states “...combusts any fuel or byproduct/waste...”. The tailgas is not a fuel and according the NSPS definition for byproduct/waste it is also not a byproduct/waste because the definition states that gaseous substances >10% CO are not byproduct/waste.

With the completion of this boiler/incinerator project, Birla potential HAP emissions would be less than major so that Birla may apply to be re-classified as an area source of HAP. The boiler would not be subject to the area source MACT JJJJJ because it combusts gaseous fuel.

The tailgas incinerator does not meet the definition of incinerator in K.A.R. 28-19-200 because the tailgas is gaseous. Therefore, K.A.R. 28-19-40 through 43 for incinerator emissions do not apply.

- o. For the Class I renewal issued November 15, 2019, Birla Carbon has stated that the limit in Table 8 of MACT YY is applicable because the boiler is a control device. Therefore, a Modification of Permit/Approval Conditions (MPAC) which modifies the 12/22/2011 PSD permit (see j above), the 2/2/2012 approval (see k above), and the 5/2/2013 permit (see l above) was issued on November 15, 2019. This modification makes the correction by showing that the MACT YY limit is applicable. This Class I renewal includes the MACT YY limits and requirements.
- 11. K.A.R. 28-19-517. Annual emissions inventory. This reporting requirement is included in the Class I Permit.
  - 12. K.A.R. 28-19-645. Open burning. This regulation is included in the Class I Permit.
  - 13. K.A.R. 28-19-650. Emissions opacity limits. K.A.R. 28-19-650(a)(2) limits opacity to 40% for stationary sources existing on or before January 1, 1971 and K.A.R. 28-19-650(a)(3) limits opacity to 20% for stationary sources installed after January 1, 1971. This regulation is addressed in the facility-wide requirements of the Class I Permit.
  - 14. 40 CFR Part 60. New source performance standards (NSPS). [K.A.R. 28-19-720]

40 CFR Part 60, Subpart Dc, Small industrial-commercial-institutional steam generating units. Affected emission units are EU-B02 and EU-TG01. The Dc requirements are included in the Class I Permit. Neither of these boilers has any standards under Subpart Dc because their fuel is gaseous.

40 CFR Part 60, Subpart Kb, volatile organic liquid storage vessels. Most of the tanks contain carbon black which is a solid. The remaining tanks are TK-06, TK-07, TK-08, and TK-09. These four tanks are not subject to Subpart Kb since it was modified in 2003. TK-06, TK-07, and TK-08 are greater than 151 cubic meters but the maximum true vapor pressure is less than 3.5 kPa. TK-09 is 75.6 cubic meters but the maximum true vapor pressure is less than 15.0 kPa.

40 CFR Part 60, Subpart IIII, (Compression Ignition Internal Combustion Engines). Birla Carbon has one engine which powers a generator (IA-GEN). This compression ignition 540 Hp engine has no requirements under Subpart IIII since it is used for emergencies only and was installed in 1999.

15. 40 CFR Part 61. National emission standards for hazardous air pollutants (NESHAP). The applicant certified that the source is not subject to any NESHAP requirement. However, since the facility may have asbestos-containing materials, standard permit language for 40 CFR Part 61 Subpart M will be used to cover possible future need.
16. 40 CFR Part 63. Hazardous air pollutants (HAP) sources. The applicant has certified the facility is a major HAP source.
  - 40 CFR Part 63, Subpart DDDDD, Industrial, Commercial, and Institutional Boilers and Process Heaters. The boiler EU-B02 is subject to Subpart DDDDD. The boiler EU-TG01 is not subject to DDDDD because it is subject to another MACT, specifically YY. Fin tube Steam heaters IA-OH1 and IA-OH2 have no combustion and therefore are not process heaters and not subject to Subpart DDDDD). This Class I Permit has the applicable Subpart DDDDD requirements.
  - 40 CFR Part 63, Subpart F, Hazardous organic NESHAP (HON). The applicant certified that the source is not subject to HON requirements.
  - 40 CFR Part 63, Subpart YY - Carbon Black Production. The facility is subject to Subpart YY when the Reactor #2 or #3 exhaust to the tailgas flare EU-FLARE01 or EU-TG01. The applicable Subpart YY requirements are included in the Class I Permit. For the flare, the Subpart YY requirements include 40 CFR 63, Subpart SS requirements also. Previous to this permit, the exhaust stream routed to the tailgas boiler (EU-TG01) had no limits under Subpart YY because this exhaust stream was not a process vent (defined at 40 CFR 63.1101) since the exhaust was used as fuel for the boiler. For this permit, the boiler is considered a control device, therefore, the boiler is subject to the YY limit in Table 8 of YY.
  - 40 CFR Part 63, Subpart ZZZZ (NESHAP for Stationary Reciprocating Internal Combustion Engines). Birla Carbon has one engine which powers a generator (IA-GEN). This compression ignition 540 Hp engine has no requirements under Subpart

ZZZZ since it is used for emergencies only and was installed in 1999. [40 CFR 63.6590(b)(3)(iii)]

17. 40 CFR Part 64, Compliance Assurance Monitoring (CAM). The following emission units have control equipment and are subject to a standard: EU-R02, EU-R03, EU-BLEND, EU-WV02, EU-WV03, EU-BF01, and EU-BF02. The control equipment is inherent to the process because product is collected. Birla Carbon would have the control equipment even if there was no air standard. The primary reason for the control equipment is to collect product, not to control air pollution. Therefore, a CAM Plan is not required.  
  
EU-BF07, EU-BF08, and EU-BF09 are only subject to an opacity limit. Therefore, a CAM Plan is not required.  
  
The carbon black reactors exhaust to a boiler or flare which is required by 40 CFR 63, Subpart YY for carbon black. Since Subpart YY was proposed 10/14/1998 (after 1991), the flare and boiler are exempt from a CAM Plan.
18. 40 CFR Part 68. Chemical Accident Prevention Provisions. The applicant certified that the source is not subject to the 1990 CAAA Section 112(r), therefore, it is not subject to 40 CFR Part 68.
19. 40 CFR Part 72, 40 CFR Part 73, and 1990 CAAA Section 401-416. Acid rain (Phase I and II facilities). The applicant certified that the source is not an affected facility.
20. 40 CFR Part 82. Protection of stratospheric ozone. The applicant uses a class II ozone-depleting substance (R-22) in air conditioning units, which will be replaced by R-601. Standard language for handling these materials will be included in the permit.
21. 1990 CAAA, Section 112(r). Accidental release prevention. The applicant certified that the source is not an affected facility.
22. 1990 CAAA, Section 129(e). Solid waste combustion. The applicant certified that the source is not a municipal solid waste incinerator subject to rules adopted under Section 129(e) of the federal Clean Air Act.
23. The source is not located in Wyandotte County, thus it is not subject to any Wyandotte County ordinance as adopted into the Kansas State Implementation Plan at 40 CFR 52.870(c)(9)(iii).
24. The applicant certified that it is not subject to any federally enforceable emission limits which conflict with any applicable requirements.
25. The applicant did not propose any exemptions from otherwise applicable requirements.
26. The applicant did not propose any permit terms and conditions allowing emissions trading.
27. The applicant certified that it will meet, on a timely basis, any applicable requirement which becomes effective during the permit term.



28. The applicant is not subject to any applicable requirement, as defined by Title V purposes, related to greenhouse gas emissions.

Source ID No.: 0670007

Source Name: Birla Carbon USA, Inc.

The period of time for which compliance is certified began at 12:01 a.m. on \_\_\_\_\_,  
\_\_\_\_\_ and ended at 11:59 p.m. on \_\_\_\_\_, \_\_\_\_\_.

Certifications of compliance are required to be submitted at least annually. The period of time covered by each certification document cannot exceed one year and there can be no period of time during the term of the permit for which compliance is not certified.

The terms or conditions of the permit that is the basis for this certification are those specified in the Class I Operating Permit issued and/or renewed by the Secretary of Health and Environment on

\_\_\_\_\_, \_\_\_\_\_.

**Compliance status of each term or condition of the permit during the certification period:**

1. ☐ In continuous compliance with all applicable requirements during the entire certification period.

2. ☐ Not in continuous compliance with all applicable requirements during the entire certification period.

***If not in continuous compliance with all applicable requirements during the entire certification period, mark the applicable description below.***

☐ One or more instances of non-compliance with any applicable requirement during the certification period.

☐ Continuous non-compliance with any applicable requirement during the certification period.

***Provide a summary of the nature, duration, and frequency of the non-compliance that occurred, including the applicable requirement(s) and emission unit(s).***

**Compliance status of each term or condition of the permit at the time the certification is signed:**

1. ☐ In compliance with all applicable requirements at the time of certification.

2. ☐ Not in compliance with all applicable requirements at the time of certification.

***Provide a description of the nature, duration, and frequency of the non-compliance that occurred, including the applicable requirement(s) and emission unit(s).***

**Methods used to determine compliance during the certification period and at the time of signing the certification:**

1. \_\_\_\_\_ In accordance with compliance demonstration methods specified in the Class I Operating Permit.
2. \_\_\_\_\_ Other - In accordance with attachments.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on information and belief formed after reasonable inquiry, including the person or persons who manage the system, or those persons directly responsible for gathering the information, the stated information in this document is true, accurate, and complete.

Name of Responsible Official (print or type):

Title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_

"Responsible official" means one of the following (From K.A.R. 28-19-200 General provisions; definitions):

- (1) For a corporation, a president, secretary, treasurer or vice-president in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation, or a duly authorized representative of such person if the representative is responsible for the overall operation of one or more manufacturing, production or operating facilities applying for or subject to permit or other relevant regulatory requirement and either:
  - (A) the facilities employ more than 250 persons or have gross annual sales or expenditures exceeding \$25 million, in second quarter, 1980 dollars; or
  - (B) the delegation of authority to such representative is approved in advance by the department;
- (2) for a partnership or sole proprietorship, a general partner or the proprietor, respectively;
- (3) for a municipality, or a state, federal or other public agency, a principal executive officer or ranking elected official. For purposes of this definition, a principal executive officer of a federal agency shall include the chief executive officer having responsibility for the overall operations of a principal geographic unit of the agency; or
- (4) for affected sources, the designated representative under title IV, acid deposition control, of the federal clean air act, 42 USC 7401 et seq.

Send certification with original signatures to:

Air Compliance & Enforcement Section  
Bureau of Air  
Kansas Department of Health and Environment  
1000 SW Jackson, Suite 310  
Topeka, KS 66612-1366

Send a copy of certification to:

Kansas Compliance Office  
Air Branch  
Enforcement and Compliance Assurance Division  
U.S. EPA, Region 7  
11201 Renner Blvd.  
Lenexa, Kansas 66219

## Operating Permit Application Summary Report

### General Facility Information

Facility Name:	Birla Carbon USA, LLC	Source ID Number:	0670007
Facility Address/Legal Description:	3500 South Road S.	KIEMS Permit Number:	OP100093 v5.0
Major Product Description:	Carbon Black Manufacturing	Date Application Received:	12/30/2016
SIC Code of Major Product:	2895		
NAICS Code of Major Product	325182		

### Application Type/Permit Activity

- ☐ Initial Issuance
 ☐ Conditional Major  
☐ Permit Modification  
☒ Permit Renewal

### Facility Emissions Summary

Pollutant	2018 Actual (tpy)	Potential (tpy)
Oxides of Nitrogen (NO <sub>x</sub> )	416.9	>100
Carbon Monoxide (CO)	1125.5	>100
Volatile Organic Compounds (VOC)	42.8	>100
Oxides of Sulfur (SO <sub>2</sub> )	1231.5	>100
Particulate Matter (PM <sub>10</sub> )	23.5	>100
Single Hazardous Air Pollutant (HAP)		
– Carbon Disulfide	2.7	>10
Single HAP – Carbonyl Sulfide	1.2	>10
Combined HAPs	3.9	>25

### Compliance Summary

- ☐ Source is out of compliance
 ☐ Compliance schedule included (CD-03)  
☒ Compliance certification signed (CR-01)
 ☐ Other \_\_\_\_\_

### Applicable Requirements list

- ☐ NSR
 ☒ NSPS (Part 60)
 ☒ SIP  
☒ PSD (Part 52.21)
 ☐ NESHAPS (Part 61)
 ☒ MACT (Part 63)  
☐ CAM (Part 64)
 ☐ Other \_\_\_\_\_

### Miscellaneous

- ☐ Acid rain source  
☐ Source subject to 112(r)  
☐ Source applied for federally enforceable emissions cap  
☐ Source provided terms for alternative operating scenarios  
☐ Source requested case-by-case 112(g) or (j) determination  
☐ Application proposes new control technology  
☒ Certified by responsible official  
☒ Diagrams or drawings included  
☐ Confidential business information (CBI) included